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LIST OF SYMBOLS AND ABBREVIATIONS

AWRM	-	Agricultural Water Reorganization Measure
B	-	Base flow into stream from the area
bgl	-	below ground level
HCO ₃	-	Bicarbonate
BIS	-	Bureau of Indian Standard
Cd	-	Cadmium
Ca	-	Calcium
Ha_Ca	-	Calcium Hardness
CO ₃	-	Carbonate
cm/hour	-	Centimetre per hour
CGWB	-	Central Ground Water Board
ΔS	-	Changes in storage
CMA	-	Chennai Metropolitan Area
Cl	-	Chloride
m ³	-	Cubic metre
DEM	-	Digital Elevation Model
T _P	-	Draft from groundwater storage
ERDAS	-	Earth Resources Data Analysis System
S _e	-	Effluent seepage from the rivers
EC	-	Electrical Conductivity
EDTA	-	Ethylene Diamine Tetra Acetic Acid
E _t	-	Evapotranspiration
L	-	Fractional load on the groundwater for domestic and industrial water supply
GIS	-	Geographic Information System

A	-	Geographical area
GP1	-	Geological Profile 1
D_G	-	Gross groundwater draft
R_G	-	Gross recharge
GCP	-	Ground Control Points
h	-	Groundwater level in 'm'
GEC	-	Groundwater Resources Estimation Committee
S	-	Groundwater storage increase
ha	-	Hectare
i	-	Hydraulic gradient
OH^-	-	Hydroxide
IRS P6	-	Indian Remote Sensing Satellite
I_g	-	Inflow from across the boundary
S_i	-	Influent seepage into the rivers
IWRM	-	Integrated Water Resources Management
IDW	-	Inverse Distance Weigh
L	-	Length of boundary across which the flow takes place
LISS III	-	Linear Imaging Self – Scanning sensor
pH	-	Logarithmic expression of the hydrogen in concentration
Mg	-	Magnesium
m	-	Metre
mmhos/cm	-	Micromhos per centimeter
mL	-	Milli Litre
mm	-	Milli metre
mg/l	-	Milligram per litre
mm/year	-	Millimetre per year
Mm^3	-	Million cubic metre
MLD	-	Million Litres per Day
NIUA	-	National Institute of Urban Agglomeration

I	-	Net groundwater inflow into the area across the boundary
NO ³⁻	-	Nitrate
NGO	-	Non Governmental Organisation
R(normal)	-	Normal monsoon season rainfall
NW	-	North West
N	-	Number of years
O _g	-	Outflow across the boundary
%	-	Percent
PD	-	Percentage Difference
PUI	-	Peri-Urban Interface
Alk_Ph	-	Phenolphalin Alkalinity
P _o	-	Population in 'o' years
P _t	-	Population in 't' years
K	-	Pottasium
K ₂ Cr ₂ O ₇	-	Pottasium dichromate
PWD	-	Public Works Department
RIF	-	Rainfall Infiltration Factor
R	-	Rainfall recharge during monsoon season
Rrf(rifm)	-	Rainfall recharge estimated by rainfall infiltration factor method
Rrf(wtfm)	-	Rainfall recharge estimated by water table fluctuation method
R _c	-	Recharge due to seepage from the canals in the monsoon season
R _i	-	Recharge from field irrigation
R _r	-	Recharge from Rainfall
I _s	-	Recharge from stream into groundwater body
R _c	-	Recharge from surface water bodies
R _t	-	Recharge from tanks and ponds in the monsoon season

R_{sw}	-	Recharge from the surface water irrigation in the monsoon season
R_{wc}	-	Recharge from water conservation structures
R_{gw}	-	Recharge recycled from groundwater irrigation
Rs	-	Rupees
Rs/m^3	-	Rupees per cubic metre
SP	-	Self Potential
$AgNO_3$	-	Silver nitrate
Na	-	Sodium
SAR	-	Sodium Absorption Ratio
Na_2CO_3	-	Sodium carbonate
SE	-	South East
SW	-	South West
S_Y	-	Specific yield in 'm'
km^2	-	Square kilometre
m^2/day	-	Square metre per day
SG and SWRDC	-	State Ground & Surface Water Resources Data Centre
SPSS	-	Statistical Package for Social Sciences
SO_4	-	Sulphate
H_2SO_4	-	Sulphuric acid
TWAD	-	Tamil Nadu Water Supply and Drainage Board
Alk_T	-	Total Alkalinity
TH	-	Total Hardness
TLC	-	Total Longitudinal Conductance
TTR	-	Total Transverse Resistance
T	-	Transmissivity
Z	-	Trend in groundwater level in Centimetre per year
TIN	-	Triangular Irregular Network

UN	-	United nation
US	-	United States
USSL	-	United States salinity Laboratory
VES	-	Vertical Electrical Sounding
VAO	-	Village Administrative Officer
H ₂ O	-	Water
WLF	-	Water Level fluctuation
WGS	-	World Geodetic System
WHO	-	World Health Organization