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List of Abbreviations

1. FPC - Flat Plate Collector

2. ETC - Evacuated Tube Collector

3. MNRE - Ministry of New And Renewable Energy

4. BIS - Bureau of Indian Standards

5. GOI - Government of India

6. SWHS - Solar Water Heating systems

7. SWH - Solar Water Heater

8. EEV - Electric Expansion Valve

9. LMFR collectors - Low Mass Flow Rate Collectors

10. TRNSYS - Transient Simulation

11. ETSC - Evacuated Tube Solar Thermal Collector

12. CFD - Computational Fluid Dynamics

13. DHW - Domestic Hot Water

14. U_L - Overall heat loss coefficient

15. F_R - Heat removal factor

16. TIM - Transparent Insulation Material

17. PCM - Phase Change Material

18. PVC - Polyvinyl Chloride

19. Q_{gain} – Heat absorbed by cold water

20. Q_{lost} – Heat released by warm water

21. T_{REQ} - Required temperature at the delivery channel

22. m_{SWH} - Mass of water flowing per unit time at the outlet of the solar water heater

23. T_{SWH} – Temperature of the water flowing per unit time at the outlet of the solar water heater

24. m_{SEC} - Mass of water flowing per unit time at the outlet of the secondary source

25. T_{SEC} – Temperature of the water flowing per unit time at the outlet of the secondary source

26. m_{DEL} - Mass of water flowing per unit time at the outlet of the delivery channel

27. T_{DEL} - Temperature of the water flowing per unit time at the outlet of the delivery channel

28. $m_{SEC(Calc)}$ – Calculated value of the mass of water flowing per unit time at the outlet of the secondary source

29. $T_{REQ(Calc)}$ - Calculated value of required temperature at the outlet of the delivery channel

30. V.P. - Valve Position