South East Asian J. of Mathematics and Mathematical Sciences Vol. 19, No. 3 (2023), pp. 181-200

ISSN (Print): 0972-7752

NEW SORT OF NEIGHBOURHOOD AND DERIVED SETS IN MILLI TOPOLOGICAL SPACES

Basavaraj M Ittanagi, M. Lellis Thivagar*, Sunil Jacob John**
Saeid Jafari*** and Chetana C.****

Department of Mathematics, Siddaganga Institute of Technology, Tumakuru - 572103, Karnataka, INDIA

E-mail: dr.basavarajsit@gmail.com

*Madurai Kamaraj University, Madurai - 625021, Tamil Nadu, INDIA

E-mail: mlthivagar@yahoo.co.in

**Department of Mathematics, NIT Calicut, Calicut - 673601, Kerala, INDIA

E-mail: sunil@nitc.ac.in

***College of Vestsjaelland South and Mathematical and Physical Science Foundation, 4200 Slagelse, DENMARK

E-mail: jafaripersia@gmail.com

****Department of Mathematics, Sri Siddhartha Institute of Technology, SSAHE, Tumakuru - 572105, Karnataka, INDIA

 $\hbox{E-mail: chetanachandran@gmail.com}$

(Received: May 27, 2023 Accepted: Dec. 17, 2023 Published: Dec. 30, 2023)

Abstract: This manuscript aims to define several models in milli topological spaces. This approach extends the scope of applications in topology. Firstly, we generate a new class of milli neighbourhood of a point, milli neighbourhood of a set