

VIDYASAGAR UNIVERSITY

A Project Work,

On

A comparative microbiological study on working surface, oven, water tap, sink & refrigerator between rural & urban kitchen

This project work submitted for the partial fulfillment for the award of degree of B.Sc. (Hons) from Vidyasagar University



Submitted by

Roll- 31217129 No-0097

Regn. No. - 32907129 of Session: 2016-17

Dept. of Nutrition: Mugberia Gangadhar Mahavidyalaya

PO-Bhupatinagar; Dist Purba Medinipur

West Bengal; Pin-721425

Supervised by –

Dr. Apurba Giri

Assistant Professor and Head,

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Mugberia Gangadhar Mahavidyalaya



Head
Dept. of Nutrition
Mugberia Gangadhar Mahavidyalaya

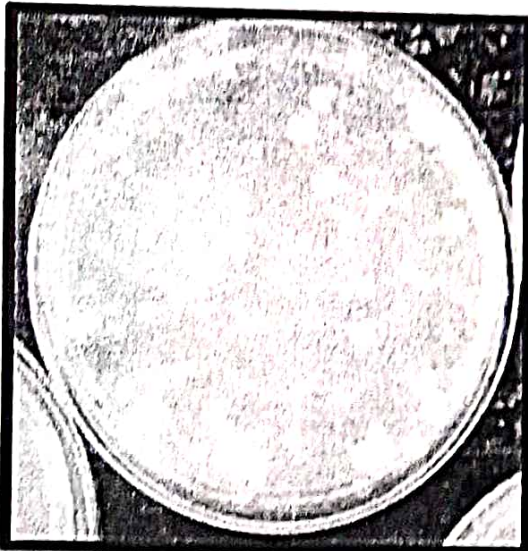
Dept. of Nutrition
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CERTIFICATE

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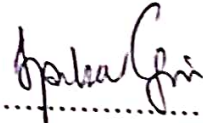
(Affiliated to Vidyasagar University)

TO WHOM IT MAY CONCERN

This is to certify that Nirupama Barman (Roll: 3121712; No: 0097) a student of B.Sc. Part –III, Dept. of Nutrition, under Vidyasagar University, Paschim Medinipur, has completed her project work under my guidance on the topics 'A comparative microbiological study on working surface, oven, water tap, sink & refrigerator between rural & urban kitchen' for partial fulfillment for the award of degree of B.Sc. from Vidyasagar University.

I am satisfied for her performance. She is energetic and up to date in her work; I wish success in her life.

Date: 20.02.18



(Dr. Apurba Giri)

Assistant Professor and Head,
Dept. of Nutrition
Mugberia Gangadhar Mahavidyalaya

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First and foremost, I would like to pay my obeisance to God Almighty for always bestowing me with her blessings without which I could not have achieved anything that I have today.

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I am really obliged to other faculty members of the prof. Moumita Samanta, guest lecturer Dept. of Nutrition, Mr. Chandan Khanra, Ms. Keya Dash, Ms. Pranati Bera and Mrs. Rikta Jana for their valuable suggestion and lab attendant Mr. Prabal Das for his assistance.

Vocabulary finds no appropriateness to express my heartfelt love and thanks from the very core of my heart to my classmates and juniors for their constant encouragement and help throughout the study.

Date.....

*Nirupama Barman
(Nirupama Barman)*

ABSTRACT

In the present study rural and urban kitchen was compared with microbial quality. The sample of floor, oven, sink, tap, refrigerator (handle), refrigerator (inner-self) were collected in the area of rural and urban kitchen and the total plate count, coliform, yeast and mold count were evaluated. The study showed that there was no significant ($P>0.05$) difference of sink, tap, refrigerator (handle) and refrigerator (inner-self) in the kitchen between rural and urban kitchen on all microbial quality. But there was significant difference ($p<0.05$) of floor between rural and urban kitchen. In case of oven there was significant ($p<0.05$) difference on SPC and Yeast and mold count but no significant ($P>0.05$) difference was found on coliform count in between rural and urban kitchen.

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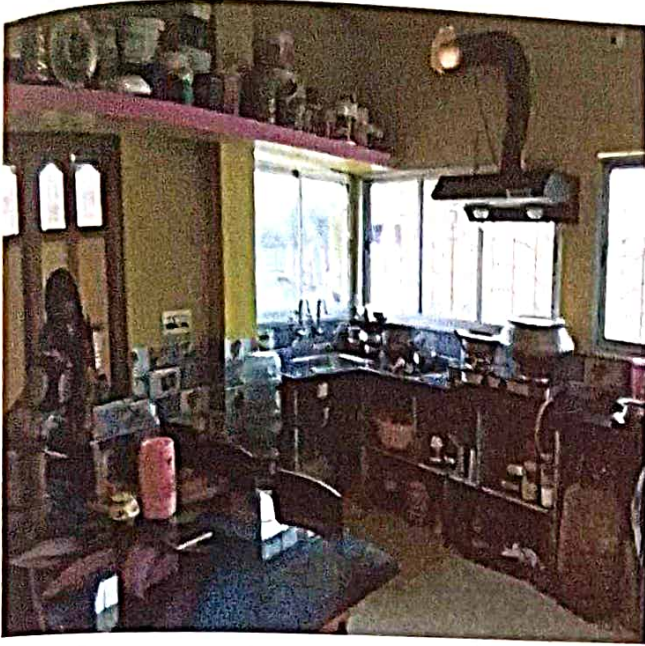


Plate2: Some rural kitchens from which the samples were collected



Plate 3: Some urban kitchens from which the samples were collected



Plate 4: Arrangement before Platting

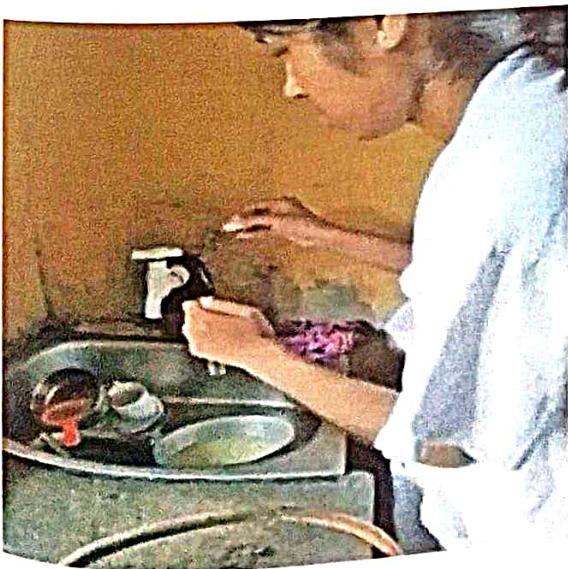
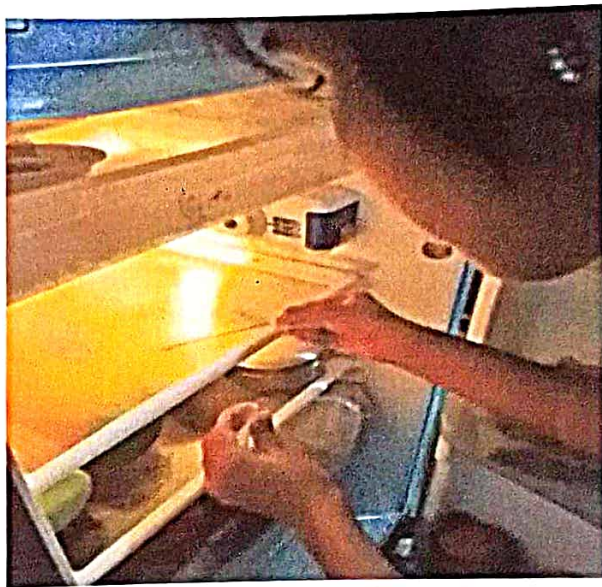
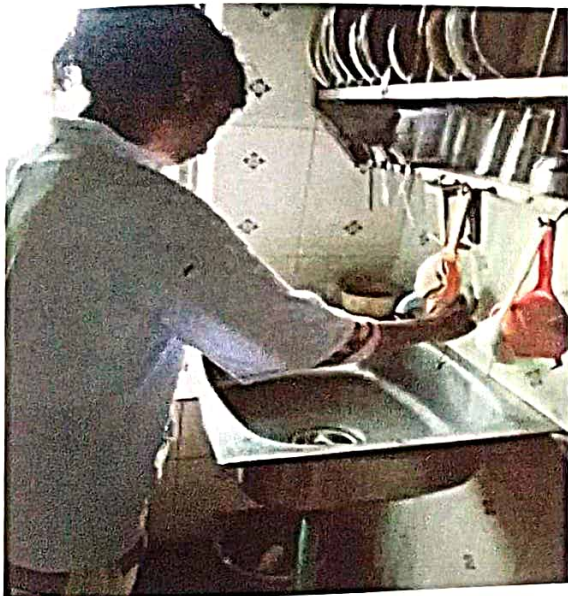


Plate 5: Different activities of sample collection in rural and urban kitchen

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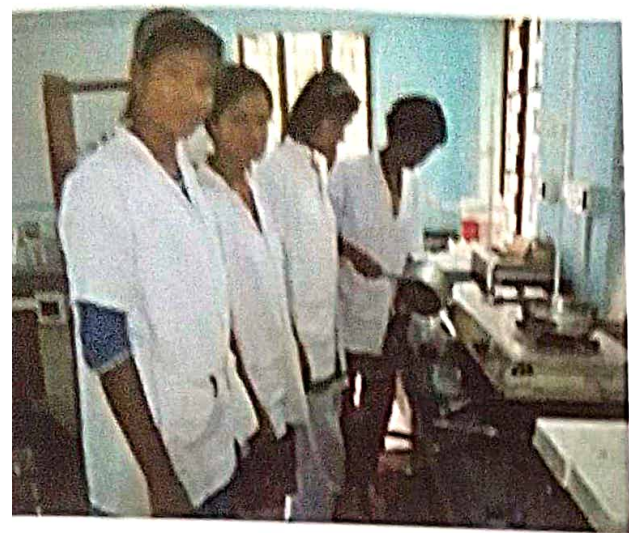


Plate 6: Different activities during making microbial media



Plate 7: Different activities during plating

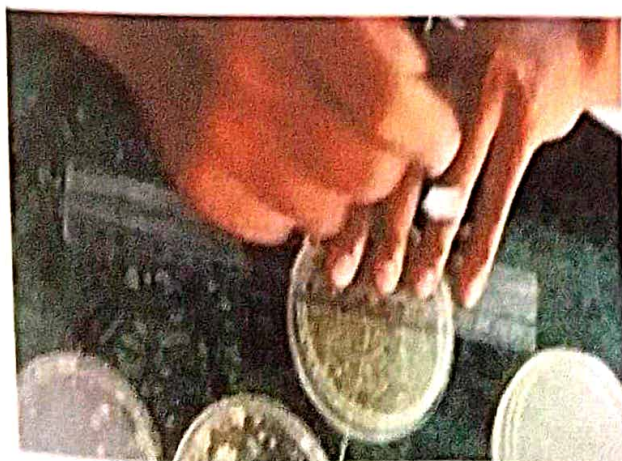


Plate 8: During plate counting