

**ANTHROPOMETRIC STUDY OF ADULT MALE  
BRICK-KILN WORKERS OF MURSHIDABAD  
DISTRICT, WEST BENGAL**

**A THESIS SUBMITTED TO VIDYASAGAR UNIVERSITY FOR  
THE DEGREE OF DOCTOR OF PHILOSOPHY (SCIENCE)  
IN  
ANTHROPOLOGY**

**SUBMITTED BY  
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**2017**

**DEDICATED  
TO MY  
FATHER, LATE SANTOSH GHOSH**

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## DECLARATION

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I Mihir Ghosh hereby declare that the thesis, entitled “**Anthropometric Characteristics of Adult Male Brick-kiln Workers of Murshidabad District, West Bengal**” submitted to the Vidyasagar University, in partial fulfillment of the requirements for the award of the Degree of Doctor of Philosophy in Anthropology is a record of original and independent research work, done by me during 2012-2016 for the award of Doctor of Philosophy.

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- The supplementary/other aspects of the present data-set have been partially/fully utilized productively for the publication of research papers.
  
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### TO WHOM IT MAY CONCERN

- (1) This is to certify that **Mr. Mihir Ghosh** is a registered Ph.D. research scholar working under my guidance at Department of Anthropology, Vidyasagar University, West Bengal. He has been undertaking research work under my supervision since 2012 for her Ph.D. work entitled "**Anthropometric study of adult male brick-kiln workers of Murshidabad District, West Bengal**".
- (2) Mr. Ghosh personally carried out fieldwork in connection with his Ph.D. work. His Ph.D. thesis is based on original data-set collected by him.
- (3) I also certify that the content of the thesis has not been submitted to any other University/Institution for the procurement of Ph.D. Degree/any other Degree/Diploma/other academic award.
- (4) Mr. Ghosh has incorporated all the recommendations/ suggestions/modifications forwarded by the Ph.D. committee in Anthropology for the improvement of the thesis.
- (5) I am satisfied on his performance and progress of the Ph.D. work.
- (6) I am recommending his thesis for submission for the procurement of Ph.D. Degree in Anthropology.
- (7) Finally, I hope he will be awarded a Ph.D. degree and wish him all success in life after successful completion of her Ph.D.

**Prof. Kaushik Sankar Bose**

**Ph.D. Supervisor**

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**Date:.....**

(.....)

**Mihir Ghosh**

## LIST OF ABBREVIATIONS USED

<b>Abbreviations</b>	<b>Full Forms/Names</b>
AMS	American Meteorology Society
ANOVA	Analysis Of Variance
BAI	Body Adiposity Index
BMAI	Body Mass Abdominal Index
BMI	Body Mass index
BSF	Biceps Skinfold
CC	Chest Circumference
CED	Chronic Energy Deficiency
CI	Conocity Index
CM	Centimeter
DL& LRO	District Land & Land Reform Officers
FAO	Food & Agriculture Organization
FFM	Fat Free Mass
FFMI	Fat Free Mass Index
FM	Fat Mass
FMI	Fat Mass Index
GDP	Gross Domestic Product
GNR	Global Nutrition Report
HC	Hip Circumference
HT	Height
IFPRI	International Food Policy Research Institute
ILO	International Labor Organization
KG	Kilogram
LT	Liter
M	Meter



MFI	Monthly Family Income
MM	Millimeter
MPR	Ministry Of Panchayati Raj
MUAA	Mid-upper Arm Area
MUAC	Mid-upper Arm Circumference
MUAFA	Mid-upper Arm Fat Area
MUAMA	Mid-upper Arm Muscle Area
NSSO	National Sample Survey Organization
OBC	Other Backward Class
PBF	Percent Body Fat
SD	Standard Deviation
SES	Socio-economic Status
SIH	Sub-ischal Height
SISF	Supra-iliac Skinfold
SPSS	Statistical Package For Social Science
SSF	Sub-scapula Skinfold
STH	Sitting Height
TBW	Total Body Water
TSF	Triceps Skinfold
UDHR	Universal Declaration of Human Rights
UNICEF	United Nations International Children's Emergency Fund
WC	Waist Circumference
WHA	World Health Assembly
WHR	Waist-Hip Ratio
WHTR	Waist-Height Ratio
WT	Weight

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