(DBM-CHED Joint Circular No. 3, series of 2022)

CERTIFICATION OF PERCENTAGE CONTRIBUTION

(Research Output with Multiple Authors)

Title of Research:	Time-Series Forecasting of COVID-19 Cases Using Stacked Long Short-Term Memory Networks
Type of Research Output:	Journal Article

Instruction: Supply ALL the names of the authors involved in the publication of Research output and indicate the contribution of each author in percentage. Each author shall sign the conforme column if he/she agrees with the distibution. The conforme should be signed by all the authors in order to be considered. Please prepare a separate Certification for each output.

	Name of Authors	% Contribution	Conforme (Sign if you agree with the % distribution)
1	RENATO R. MAALIW III	40%	TM3
2	ZOREN P. MABUNGA	30%	
3	FREDERICK T. VILLA	30%	
4			
5			
6			
7			
8			
9			
10			
11			

Certified by:

*should have a total of 100%

Prepared by:

100%

RENATO R. MAALIW III, DIT (Name and Signature)

Faculty

NICANOR L. GUINTO, Ph.D

(Name and Signature) Research Director

(If the one certifying is the co-author, the next higher academic official shall sign the certification)