**FACULTY POSITION RECLASSIFICATION FOR SUCS**

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

**CERTIFICATION OF PERCENTAGE CONTRIBUTION**

(Research Output with Multiple Authors)

**Title of Research:** Scenario-Based Multi-Objective Location-Routing Model for Pre-Disaster Planning: A Philippine Case

Study

**Type of Research Output:** Journal Paper (Scopus-Indexed, MDPI Paper)

**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 distribution. The conforme should be signed by all the authors in order to be considered. Please prepare separate Certification for each output.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name of Authors | % Contribution | Conforme  *(Sign if you agree with the % distribution)* |
| 1 | Maria Rossana D. de Veluz | 50.0% |  |
| 2 | [Anak Agung Ngurah Perwira Redi](https://sciprofiles.com/profile/1024208) | 20.0% |  |
| 3 | Renato R. Maaliw III | 10.0% |  |
| 4 | Satria Fadil Persada | 5.0% |  |
| 5 | Yogi Tri Prasetyo | 5.0% |  |
| 6 | Michael Nayat Young | 10.0% |  |
|  | *\* Should have a total of 100%* | 100.00% |  |

|  |  |
| --- | --- |
| **Prepared by:** | **Certified by:** |
| **Engr. Maria Rossana D. de Veluz**  (Name and Signature)  Faculty | **Nicanor L. Guinto, Ph.D**  (Name and Signature)  Director, Office of Research Services |