**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID48869 |
| Project Name | Project – Predicting the energy output of wind turbine based on weather condition |
| Maximum Marks | 3 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | * During the development of generator part for wind turbine, the analysis of each element needs to be criticized so that the specific component used can be known. * The details of type of material used also must consider in order determining the production of generator part of wind turbine experiment. |
| 2. | Idea / Solution description | * instead of using electricity to make wind—like a fan—wind turbines use wind to make electricity. * Wind turns the propeller-like blades of a turbine around a rotor, which spins a generator, which creates electricity. |
| 3. | Novelty / Uniqueness | * The average nameplate capacity of turbines is also increasing, meaning they have more powerful generators * wind power will cover more than one-third of global power needs (35%), becoming the world's foremost generation source |
| 4. | Social Impact / Customer Satisfaction | * ● More power generation to the households, less power cuts |
| 5. | Business Model (Revenue Model) | * Can collaborate with the power suppliers * Provide solutions by collaborating with the government. |
| 6. | Scalability of the Solution | * acceptable alternatives for electric power generation, they do not meet the imperatives of power density, cost, scalability, and reliability. |