**A DRAFT PLAN ON**

**WIRELESS POWER TRANSFER**

In this world full of upgraded technologies wireless power transfer can make a big change in future. As the WPT is very limited and has very less use in the present world, by the idea of using radio frequency with wireless transfer as a medium because of which there will be a good upgrade in WPT. It is the same way we transfer data from mobile to mobile or device to mobile, but the only difference is in the place of data we are transferring the power. WPT can be used in many applications like Mobile - Mobile Power transfer, Wireless Charging, Energy Harvesting, etc. This idea will open lots of opportunities for WPT and give a long-distance power transfer. The major goal of this project is that power will be transferred in the form of radiofrequency or radio signal from the transmitter to receiver where it will be converted into power. This process can be done in many ways and one of the ways will be Packet Transmission. This technology will also give a good idea about Multiple Input and Multiple output technology.

**Approach:**

* MATLAB is used by using RF tool to show the power transfer in the form of graphical representation.
* Mathematical Analysis will be done in-order to remove errors, Path-loss and provide a better, higher frequency(power) signal to the receiver.
* The project design will be completely based on the mathematical analysis and the MATLAB results.

**MILESTONES:**

* Strong Communication signal is provided for device-device power transfer.
* Providing more efficient power transfer for good future reference.
* Giving a detailed information on how Radio frequency can be used for WPT.

In this project, we are going to show a strong WPT by using radio frequency which will be useful for long distance power transfer. We will also be talking about Energy Harvesting and how our project can be beneficial for other future projects.

We are a group of three and have an equal responsibility for getting a good MATLAB code and to design a Mathematical Analysis and completing the project successfully by making it a good upgrade for the recent/past work.

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