LIVE RUSH FEEDING WITH MAPPING & MOBILITY CHARGING

1. BASIC DETAILS

a. Name of the Team Leader along with department and contact details:

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b. Name of Team Members along with departments and contact details (if any):

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c. Motivation to participate in PRAYAS-2023:

-To transform this innovative idea into a startup.
-To connect with creative,innovative and enthusiast people in entrepreneurial journey.

d. Focus area of your participation:

1. Information & Communication Technology (ICT)
2. Sensor Technology
3. Any other area based on S&T

2. UNMET NEED YOU ARE TRYING TO SOLVE *(Explain the problem you are trying to solve)*

As Finding a EV charging stations is very hectic, since there are few Charging stations at present and it comes much more difficult to find a ev Charging station in a remote location.SO just to overcome this problem we are to develop a sharing charging model to solve the location problem with live rush feed at that time and Availability of ev mobility vehicles at the remote locations. There are several options present in the market to track all charging station but there is no one to track it out.

3. PROPOSED SOLUTION *(Detailed solution including the below mentioned points not exceeding 700 words)*

a. *SOLUTION (Give the detailed specification)*
-For this, Every EV Charging stations will be registered into our Database and have to install RFID Readers at their Stations.
-Along,Users have to add 'Passive RFID Tags' on their ev', to get the details about the number of Vehicles Entering and Exiting at a particular Charging Station.
-We,will be having our 'ev battery packed trucking system' to provide charging facility to remote locations.

b. *INNOVATIVENESS*

-We are developing a platform where we will present them the map with the auto-refreshing live feed of rush at that point

-On the other portion in parallel to this we are trying to provide them the Mobile charging vehicles to them by getting their live location to the person in Mobile charging vehicle.

This is yet to be implemented with a large funding to have such Mobile vehicles.

c. *NOVELTY*

-We are using the RFID Monitoring system to fetch the live rush on the charging station and IR sensor on the port location in .ino and sending to a Dockerised container in K-Cluster and later fetch it on the platform.

-We are also giving the Pre-Booking system at the charging station to customers to give them the required type of port at that particular period of time.

-We are also working on the remote location charging system as that is not possible to develop a complete ev station at that location. We are doing it by using the Mobile charging vehicles with a large charged battery pack system.

-We are also covering the Battery Swapping points with live no of charged batteries present in that machine.

d. *UNIQUENESS*

-Live rush feeding[whether the port is free or not] to the customer within the map.

-Booking system of the charging port for a particular period of time at the charging station to charge the vehicle if port at that day and time is free or not.

-Provision to include the Mobile charging vehicles at the remote locations to charge that ev if that is fully discharged in a remote location.

-We are also covering the Battery Swapping points with live no of charged batteries present in that machine.

**[We have a self pre-developed and working prototype of this project in use that we can present in]*

4. BUDGETARY REQUIREMENTS

Approx 2.5Lac:

[50k -Incremental Software Developments + 1.5Lac -Developments of Hardware at large scale to implement +50k -miscellaneous].

5. TIMELINE FOR EXECUTION OF PROJECT

Approx 4 Months:

[To implement it in NCR AND JAIPUR Sections with its Development and Deployments].