

### **3<sup>rd</sup> BIMONTHLY PROGRESS REPORT FOR ECHO [MAR' 22 – MAY'22]**

**“Preparation of Bio-fertilizer from daily domestic kitchen wastes to reduce the unwanted hazard of chemical fertilizer in the environment, surrounding Kolkata Metropolis a basic initiative” - City College, 102/1 Raja Rammohan Sarani, Kolkata - 700 009**

**Survey at nearby vegetable field from farmers:**

A survey was conducted with farmers at vegetable field, Janai, Hooghly, West Bengal, during the period after submission of 2<sup>nd</sup> progress report. The farmers always prefer organic fertilizer over chemical fertilizers. We donated some of our sample product to them. They will use our fertilizer on Brinjal (Egg Plant), Lady’s finger, Pumpkin etc. After using the bio-fertilizer, provided by us, on the said plants, they will inform us about the product, whether it is working positively on the growth rate of the said plants or not . They highly prefer cow dung, Urea, Mustard cake, in their fertilizer. They also prefer the process of vermin-compost. The bio-fertilizer, which we have prepared under this project, after the composting process by the earth worms the colour of the fertilizer, became blackish brown (as documented in the figures below). The increasing usage of microbes in bio-fertilizer proves the potential for sustainable farming methods and food safety. To the farmers bio-fertilizer is a very good alternative for chemical fertilizer, and it is also very easy to process by them, also they can use this as an alternate small business. The farmers highly appreciated our initiative.

