## PROJECT DESIGN PHASE –I

## PROPOSED SOLUTION

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| DATE | 24 september 2022 |
| TEAM ID | PNT2022TMID44936 |
| PROJECT NAME | Prject-fertilizer Recommendation System For Disease Prediction |
| MAXIMUM MARKS | 2MARKS |

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| **s.no** | **parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | * To reduces the high cost spend on inorganic fertilizers,so alternatively we can use organic fertilizer. * Reduce the disease spreding activity in one another plants it wil be very must for disease prediction. * Monitr the birds and insects . * Too feed the fully need f natural resourses,ai r and water sunlight. * To take soil test regularly and Improve soil quality. * Monitor the environmentand cimates regulary. |
|  | Idea / Solution description | * A digital or simiar devices are used to take imagesof different types,and then those whoare use to identify the affected area in leaves. * Then different types of image –processing techniques are appliedto them,theprocessthose images ,toget different and useful features needed for the purpose of analyzinglater-plant leaf disease identificationis especially needed to predict the both the quality and quantity. * Identify the diseases and suggest the fertilizer. * The techniques of plant leaf disease prediction:image acquisition,image filtering,segmentation,feature extractionand classification. * Experts are detect the plant diseasein a naked eye observation by experts. |
|  | Novelty / Uniqueness | * Information from remote sensing can be used **as basemaps in variable rate of applications of fertilizers and pesticides .** * AI technology helps diagnose plant **disease,pests**,and **malnutrition.**  Application:  * The app called plantix ,deveped by hannover-it is possible to detect the disease. |
|  | Social Impact / Customer Satisfaction | * More number of farmers are use the sensor to predict their plant disease. * They are simple to use and easyto instal. * They are cheeper so everyone should buy easily . * They must give the intrest in this method to improve their plants quality and quantity. |
|  | Business Model (Revenue Model) | The following fertilizer revenueis given bellow |
|  | Scalability of the Solution | * Scalability of the fertilizer recomandation for system disease prediction helps to the plants improvement and decreses the pant disease problem. * Using a recommended fertilizer is enhances the field quality . |

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