Team ID: 30

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| **Proposed New ICT Initiative** | |
| Initiative Name | Agrisociety network management system |
| Date Submitted | 16/08/20 |
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| **Please complete the form below describing your proposed initiative** |
| 1. Abstract (not to exceed 100 words): Provide a description of the proposed initiative. |
| **Title of a project**: “Agrisociety network management system”    **Overview of a project**: In this project we are making an e-platform that will manage a network of people in agriculture business. We are going to connect them on the basis of their requirements. So we will create an app/website on which people having professions related to agriculture will register. End-user of a platform will have to provide some basic information related to their profession. And with the use of basic database of users, we will set some features in our app which will be helpful for users. We will take care of requirement based relation between farmers, fertilizer-manufacturers, fertilizer seller, animal keepers, dairies, chemical analysis labs for crop field, transportation, market yard of crop, irrigation system provider etc. Algorithm of this project is based on “Larger a network, greater the opportunities”. In abstract this project will lead us to a platform that will provide more opportunities for agricultural growth by developing a proper business system and avoiding problems like price rise in a society.  **Purpose and need of a project**: “Need makes a purpose”. Need is to control price rises of basic needs of society and it is possible by proper management of base of a system (agribusiness). A major purpose of this project is to control hoarding of essential products by providing a better and reliable business platform with greater opportunities for small business holders.  **Benefits**:   * “Hoarding of basic products” will be prohibited * Poor business holder will have more opportunities * Same types of products can be made available at nearly same price * Proper requirement based cycle will be generated among people * Efficient guidance will be available using features of platform * Efficient use of resources * An efficient network can be made * Control on price rises of daily essential products |
| 1. New and Innovative (not to exceed 100 words): Describe what is new, innovative or risky about this project. |
| **What is new and innovative for agribusiness in our project?**   * So in today’s agriculture system, there are online platforms but they are only limited to specific business community but in this project we took care to provide a perfect platform usable for many business communities related to agriculture and it provides many features those will be helpful for business communication in between them. * In current system, there is no such a big e-business platform based on agriculture. But this project will provide it and due to that a business men can observe different options for a business on such a platform and can do a profitable business. * Person involved in specific business may have need of things provided by various fields, and so we are providing a platform to make user assure that one can get all the needed things in affordable price on our platform for their business use. And which is a new concept than existing system. * We will allow only those who will satisfy some eligibility criteria decided by administrator of this e-business platform and we can reduce any kind of fraud in business by unauthorized people by not allowing them to register on our platform and it will keep platform safe and reliable. * We will have features for “rating and complaining” for users and it will create transparency on platform. And according to complaint reports there will be inspection-department to check the problems and if any user does fraud than according to sensitivity of issue further actions will be taken. So, we will provide a more secured business platform.   **What is risky in our project?**   * As our project is providing an e-business platform, so if user accidently shares his ID and password or any kind of detail which is used to open an account than there is a chance of unwanted actions on account by someone. But this is not a failure of our system, but still we will make users aware about not to share any details with someone they don’t trust. * As it is agribusiness related project and highly dependent on weather. So if unexpected circumstances occur than major portion of agricultural system can be affected. But as a solution we will have weather-department and disaster-management to advice about how to handle these unwanted situations. * If users don’t complain about any cheater user than we will never know about this kind of act and no investigation can’t be done. So user must be aware from this kind of people and should complain on time. * Basically this is an online platform and there can be issues between any two major registered companies but in that case issue must be solved quickly else so many small businessmen may get affected. |
| 1. Strategic Importance (not to exceed 100 words): Why is this project of strategic importance to Society? |
| * So as we know there are some basic needs of society like food & fabric. And we believe that these needs are satisfied directly or indirectly by agriculture. We are not saying that current agriculture system is full of mistakes but it can be more strategic in terms of business cycle. And this project will generate a reliable, organized and transparent structure for agriculture due to that, problems related to agriculture can be reduced and basic needs of people can be made available at affordable prices and it can be a step towards revolution in traditional agribusiness. And so this project/platform can be proven important as a part of development of society. * We can say that any country’s system may collapse if people don’t get their basic needs of life at affordable prices and that situation occurs by hoarding, corruption and mismanagement in agribusiness. And if we make agricultural system structured, than price rises of food items and some daily needed products can be controlled. And it is possible by our project as this project/platform will have ability to show expected price of their need and so seller can’t make price rise unnecessarily by going against market price as he will lose customers. So strategic way for development of society goes through development of agriculture and that is why projects like this are important to society. * If we make such a business network for agriculture and especially In agrarian country like India where around 53% to 60% population of country are involved in agriculture than it is helpful for economy rise of country as such network is related with more than half of population of country. |
| 1. Proposal (not to exceed 600 words) Provide a project description, statement of the work to be undertaken, and the objectives to be achieved. |
| **Note about this project: This project has one major intention and that is “To make an effective agribusiness network”. But website/app we are making through this project can be owned or handled by government or a big private company in a single system else there would be complications if there are multiple platforms. Because this project is to bring whole agriculture community together. And we want this project to handover to government due to such reasons.**  **Proposal for government to apply this project:**  🡪Due to such a platform, government will not need to make so many efforts while making an annual budget and economical decision  🡪As there will be all the data about past and present of production of crop and agricultural products, government can take further decision about what to import and what to export for a country  🡪Due to such online platform effective interaction between government and people can be established. Government can do live sessions or webinars for specific departments of agriculture for department’s welfare on such a platform.  🡪This project is about to create an e-platform for major professions involved in agriculture and this platform provides a structured system for agribusiness. And if government apply this system than problems those government faces like price rises in basic needed item can be solved.  🡪Government will be aware about incomes of registered people on platform and if anything suspicious they found about tax payment or black money than they can take suitable action.  🡪If government apply this project than government can easily have eye on transparent money circulation over agriculture. And by considering a proper analysis on agribusiness through this platform, government can apply whatever useful schemes they want to establish for agribusiness.  🡪Government can organize Q&A sessions at district, state or country level and government can know what people think about government schemes for current business situations and government can do further improvement on the problems. Or government can announce a poll to get an advice for specific topic or scheme and improve.  🡪It will be easy for government to analyze past data for agricultural business happened and what are expected problems to be occur that might impact the structure of agriculture at district, state or country level.  **Work to be undertaken for project:**   * **If government apply this project to a system than government will have to make some departments and organization to apply designed project.**      * Government will have to make departments mentioned below: * Record analyzer and government scheme handler department (selected team will work at this department for government scheme advisor with the help of data analysis) * Complaint handling department (Will handle complains of users) * Smart farming tool provider (Will provide essential tools for smart farming) * Public relation team (Will advertise government schemes and will work as a interaction link between government and people) * Tax handler department (Will handle tax issues) * Government will have to make a system to appoint people for these departments * Government will have to decide some guidelines for registration criteria on platform   **Objectives of a project:**   * To provide transparent, efficient and organized e-platform for agribusiness * To prohibit acts like hoardings of product by product’s transparent circulation * To control price rises of food products * To increase employment * To create opportunities for small businessman related to agriculture * To make people aware about affordable options for agribusiness * To create a network for people involved in agriculture * To make agribusiness world reachable and smaller by online platform     **why to use this platform as a user:**   * This platform is for farmers, fertilizer-manufacturers, fertilizer seller, animal keepers, dairies, chemical analysis labs for crop field, transportation, market yard of crop, irrigation system provider etc. And so user from any field can be on a platform and user can check all the dealers/users sell prices and then user can deal with affordable dealer. * A big factories or labs are allowed to be on this platform only when they are authorized by government and that is why there are lesser chances of big frauds on platform. * Platform provides you a latest day to day trend and market updates, so user can be well aware by current affairs of agribusiness. * Platform provides certain details of users to contact with each other so it will be helpful to do business with ease. * Platform has features for “rating and complain” policy. And due to such policies improvements can be made. |
| 1. Outcomes, Impact and Metrics (not to exceed 200 words) What outcomes and potential impacts on Society do you expect? What are the metrics you will use to measure success? |
| **Outcomes and potential impacts of this project**:   * Due to such a platform, government will not need to make more efforts while making annual budget and such economical decision will be taken easily * As there will be all the data about past and present of production of crop and products, government can take further decision about what to import and what to export for a country * People involved in agriculture, will be well aware of market situation and government’s new schemes * Circulation of crop or agricultural products will be known to government and if in any circumstances government find lack of crop than according to circulation and production rate they can find if there is hoarding of things happening or not * Agriculture business world will be reachable and narrow. * Government and agribusiness holders will be able to interact with each other * Price rises of basic needs will be controlled due to transparent platform * There will be a transparent and efficient platform for agribusiness * Due to gathering of many different professions on a single platform there will be more options for people to grow their business and to connect with people * There will be less fraud problem because there will not be any unauthorized account and even if any fraud happen than due to deal record, cheater will be punished * There will be an online platform after completion of this project that will suggest and offer solutions for almost all agricultural businesses.   **Metrics**   * One of measure tools to measure success of platform can be government can analyze that even in a bad season how much negative impact is avoided in terms of crop production and income of people by specific department associated with platform * Government will have some specific data about average income of people registered on platform and they can analyze that project is being effective or not. * If price rises of agricultural products do not rise and so government can analyze that the circulation of those agricultural products is structured and efficiency of platform can be decided on that basis. * Government can notice the annual report for online frauds and complaints made by users on platform and government can measure success of platform. * Government can organize online polls on platform to know about what people think about performance and service of platform and government can analyze about platform and can improve it. |

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| 1. Deliverables (not to exceed 200 words) Describe the deliverables to Society from this project. Please be specific. |
| **Deliverables to society**   * This kind of platform will prohibit non ethical way to earn money by cheating farmers and due to that poor farmers and others will be able to get respect and money what they deserved and in society there will be a system that will not let “poor be more poor”. * Due to complain handling department and rating policy, people on a platform will not try to do any fraud and because of that a “Suitable business platform” will be provided to society. * Society will be delivered a system that will keep transparency in agribusiness and so hoarding of products will be prohibited or detected and due to that people of society will get their basic needed products at affordable prices. * Due to such platform, there will be easy to start a business related to agriculture because there will be proper guidance after being on a platform and a new comer to platform can see a ratings and complaint records of other users and they can take decisions about with whom they can deal. * Agriculture will be one of major representative field as it is even today but due to such platform society will take a look to agriculture and society will understand agriculture’s importance to society. * Students will take interest in agriculture and will take interest in it and will consider agriculture as important profession. |

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| 1. Please indicate the estimated funding required for this project. (Note that seed grant funding cannot be expended for capital equipment or salaries.) |
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| **Duration of initiative:** 1 Year  **Budget: Anticipated Expenses**  **In this project there will be expense for establishing some departments (Departments like Record analyzer and government scheme department, Complain handling department, disaster management for agriculture, Smart farming tool provider organization and public relation team) at some levels and there will be expense for handling of those departments by appointing employees in them. But we are not including those expenses here because those will be dependent on some variables related to government. We are including expenses of IOT system here that will be included in our project.**   |  |  | | --- | --- | | **Expense description** | **Expense Amount (₹)** | | Arduino Uno rev3 | **₹1800** | | LM 35 | **₹ 250** | | Methane sensor | **₹ 230** | | Soil moisture sensor | **₹ 185** | | Ic drivers (3) | **₹ 1200** | | MAX232 | **₹ 500** | | Esp 8286 | **₹ 450** | | Humidity sensor | **₹ 230** | | **Total Expenses** | **[₹ 4845 (For one IOT system) \* No. of IOT systems demanded in 1 year]** | |

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| 1. Funding requested by calendar year: The budget in section 7 shows the funding requested over the duration of the project. Since budgets on a calendar year basis, please specify how much funding you will need for each calendar year. |
| **We are mentioning required funding per district for a project.**  **Including maintenance expense of one manufacturing branch per district.**  **We have assumed that per year 500 devices per district will be sold.**  **500 devices \* 4845 = 2422500 INR per district**  **70000 INR maintenance cost per month \* 12 months = 840000 INR per year**  **2422500 + 840000 = 3262500 INR for current year**  **3000000 INR for following year (because there is no need of buying same system by farmer in following year so there is no need to manufacture new devices.)**   |  |  |  |  | | --- | --- | --- | --- | |  | **Current Year** | **Following Year** | **Total Expenses** | | **Project** | **₹3262500** | **₹3000000** | **₹3300000** | |

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| 1. Add six diagrams for uniqueness product of project (Top, Bottom, 4 sides). To be useful for customer |
| Top :    Bottom :    Side 1 :    Side 2 :    Side 3 :    Side 4 : |