



කෘෂිකර්ම අමාත්‍යාංශය  
Ministry of Agriculture  
கமத்தொழில் அமைச்சு

## ENVIRONMENTAL SCREENING REPORT

Subproject title: Construction of Dry Chilli collection  
Center in Batticaloa



### Sri Lanka Agriculture Sector Modernisation Project (ASMP)

Prepared for Project Management Unit of the Agriculture Sector Modernization Project

Democratic Socialist Republic of Sri Lanka, Ministry of Agriculture (MOA)

Updated: December 2021

**TABLE OF CONTENTS**

Project Identification ..... 4

Project Location ..... 4

Project Justification..... 6

Project Description..... 9

Description of the existing environment ..... 11

Public Consultation ..... 16

Environmental Effects and Mitigation Measures ..... 21

Cost of mitigation..... 37

Conclusion and Screening Decision ..... 37

EMP Implementation responsibilities and Costs ..... 39

Screening decision recommendation ..... 39

    Annexure 1: List of References..... 40

    Annexure 2: Project location maps ..... 41

    Annex 3: Designs of the Collection Centre ..... 42

    Annex 4: Beneficiaries list..... 44

    Annex 5: Consent letter from DS..... 50

    Annex 6: Distribution of water bodies in Batticaloa district ..... 52

    Annex 7: Protected areas of Batticaloa district..... 53

**FIGURES**

**Figure 1: Selected land for the construction..... 17**

**Figure 2: Onsite discussions with farmers ..... 20**

**ABBREVIATIONS**

|      |                                          |
|------|------------------------------------------|
| ASMP | Agriculture Sector Modernization Project |
| DSD  | Divisional Secretary Division            |
| EMP  | Environmental Management Plan            |
| GND  | Grama Niladari Division                  |
| LKR  | Sri Lanka Rupees                         |
| MOA  | Ministry of Agriculture                  |
| PMU  | Project Management Unit                  |
| WQI  | Water quality index                      |
| RDS  | Rural Development Society                |
| WRDS | Women Rural Development Society          |

## Agriculture Sector Modernization Project

### Environmental Screening Report

#### PROJECT IDENTIFICATION

|                          |                                                                          |
|--------------------------|--------------------------------------------------------------------------|
| <b>Project title</b>     | Construction of Dry Chilli collection Center in Batticaloa               |
| <b>Project Proponent</b> | Agriculture Sector Modernization Project (ASMP), Ministry of Agriculture |

#### PROJECT LOCATION

|                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Location</b><br/><i>(Relative to the nearest town, highway)</i></p> | <p>Batticaloa District situated in the central part of the Eastern province in Sri Lanka is bounded at the North by Verugal Aru &amp; Trincomalee District, at the West by Polonaruwa District at the south by Ampara District and at the East by Indian Ocean. Batticaloa is the major city in the Eastern Province. The total land area of the District is approximately 2,482 square kilometers. Pasikudha is popular tourist destination with a shallow calm sea and a beautiful beach.</p> <p>The district is subdivided into 14 Divisional Secretary Divisions (DSDs). Each DSD is again subdivided into several Gram Niladari Divisions (GNDs). The total number of GNDs is 345. Each GND consists of several villages. There are 965 villages in the district. The local authorities comprise one Municipal Councils in Manmunai North, two Urban Councils in Kattankudy and Eravur Town and eleven Pradeshiya Sabas.</p> <p>Proposed dry chilli cluster project has selected farmlands across 8 villages and 6 out of them belong to the Manmunai South &amp; Eruvil Pattu (MS&amp;EP) Kaluwanchikudy DS division while two villages belong to the Manmunai Pattu (MP) - Arayampathy DS division.</p> <p>The project includes establishment of dry chilli cluster, establishment of Elephant fence and construction of collection center. However, this environmental screening report is prepared only considering the construction of dry Chilli collection center. Construction of Elephant fence and the dry chilli cluster implementation will be addressed separately. Manmunai South &amp; Eruvil Pattu (MS&amp;EP) Kaluwanchikudy DS division has 45 GN divisions and dry chilli cluster project locations are scattered in six villages namely Kaluthavali, Thetativu, Mankadu, Chddipalayam, Mahiloor and Kurukkalmadam. Manmunai Pattu (MP) - Arayampathy DS division has 27 GN divisions and dry Chilli cluster project locations are distributed across two villages namely Kirankulam and Puthukudyruppu.</p> <p>Construction of dry Chilli collection center will be taken place in Manmunai Pattu DS division and the selected location is closer to the south border of the Manmunai Pattu DS division. It provides benefits for both DS divisions and that is the reason to be in somewhere middle for both DS divisions.</p> |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                       | <p>Tentative location of the processing centre of this project is shown in Annexure 2.</p> <p>1) Tentative location of dry Chilli collection center – 7°37'02"N, 81°45'57"E</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>Definition of Project Area</b><br/><i>(The geographical extent of the project &amp; areas affected during construction)</i></p> | <p>Batticaloa is an agricultural economy-based district and rice production is the main agricultural activity undertaken by farmers in lowlands. The agricultural lands are the second largest land use cover of the District. Major land uses and land cover in the District are forests, agriculture, home gardens and water bodies. Forest covers 41% of the total land area and it represent 101,459 ha the while agricultural land covers 37% of the total land area representing 92,868 ha in the District. The rest of the land covers by the home Garden, water bodies, wetlands and Non-Agricultural lands.</p> <p>Kaluwanchikudy and Arayampathy DS division armers cultivate paddy on lowland in one term (Maha Seasons) per year. During Yala season (May to August), cultivation activities are limited to paddy on lowlands and upland seasonal crop cultivation is dominant. Farmers use water from minor tanks and open well for the cultivation purposes. Farmers have cultivated perennial crops such as coconut and mango on upland for their household consumption. Since it is receiving high rainfall during Maha season (September to March), some farmers are cultivating seasonal crops on their uplands. During Yala season, seasonal crops such as ground nuts, Chili and varies vegetables are cultivating by using open well/tube well water. However, open well/tube well water is not sufficient to cultivate their entire land and most of the time only around 0.5-1 acer is cultivated. However, project selects farmers only having water sources for the cultivation.</p> <p>Total Land area of the Arayampathy DS division is around 32 km<sup>2</sup> and two villages were selected for the project. Total population of the Arayampathy DS division is around 38,405. Six villages are represented from the Kaluwanchikudy DS division and total land area 52.5 km<sup>2</sup>. Total population of Kaluwanchikudy DS division is around 70,000. The highest population of the Arayampathy DS division is belonging to the Palamunai GN division while Kaluwanchikudy south is from the Kaluwanchikudy DS division. Hindu community is common to the both DS division and it is around 95% in the Manmunai Pattu &amp; Eruvil Pattu DS division while Manmunai Pattu DS division represent around 67% of the total population.</p> <p>Dry Chilli cluster project will select about 100 potential chilli cultivating farmers who are fulfilling the project criteria enabling the project to cluster the farmers into one group for project intervention. The minimum requirement to be a beneficiary is having 0.5 acer land for the chillie cultivation and rest of the beneficiary selection criteria to be met as per the selection comity recommendations. Selected beneficiary list is shown in annexure 3. All these beneficiaries are entitled for the processing centre</p> |

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                          | <p>benefits as well. Selected location is accessible through a gravel road. A rice mill is closer to the processing center and it is around 100 m away from the location. However, the proposed construction activities and the operational activities does not have negative impact to the rice mill. Lands are generally flat terrain. Selected part for the processing center is a bare land and either side of proposed area contains both cultivated and bare lands.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p><b>Adjacent land and features</b></p> | <p>Batticaloa District situated in the central part of the Eastern province in Sri Lanka is bounded at the North by Verugal Aru &amp; Trincomalee District, at the West by Polonaruwa District at the south by Ampara District and at the East by Indian Ocean. Batticaloa is the major city in the Eastern Province. The total land area of the District is approximately 2,482 square kilometers.</p> <p>The district is subdivided into 14 Divisional Secretary Divisions (DSDs). Each DSD is again subdivided into several Gram Niladari Divisions (GNDs). The total number of GNDs is 345. Each GND consists of several villages. There are 965 villages in the district. The local authorities comprise one Municipal Councils in Manmunai North, two Urban Councils in Kattankudy and Eravur Town and eleven Pradeshiya Sabas.</p> <p>Major land uses and land cover in the District are forests, agriculture, home gardens and water bodies. Forest covers 41% of the total land area and the agricultural land covers 37% of the total land area in the District. The rest of the land covers by the home Garden 5%, water bodies 5%, wetlands 2% and Non-Agricultural lands 5%. Other Land types such as Vacant Lands, Unproductive Lands, Sandy Area, Rockout crops etc. cover around 6% of the total land area.</p> <p>Agricultural activities include paddy cultivation and high lands are used for seasonal crops such as groundnuts, chili, long bean, and several cereal crops. Further, perennial crops such as Palmyra, coconut, Cashew are found within the selected area. addition, it was observed that many Adathoda and some native species such Kohomba, Murunga, etc.</p> |

**PROJECT JUSTIFICATION**

|                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Need for the project</b><br/><i>(What problem is the project going to solve)</i></p> | <p>Chilli production is very low in the drier months of May, June, July and again in the rainy days of November, December and January. During dry period production is affected due to extreme heat causing stress to the plant which in turn reduces the fruit set. Further, the presence of peak insect pest population during the months of May to July also makes the plants less productive. Flower drops is very high during rainy season and the wet conditions is more favourable for many fungal diseases leading to loss of production. The technology package of insect proof net and poly mulching along with drip irrigation technology system would overcome the losses caused by biotic and abiotic stresses specially during drier months.</p> |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            | <p>With the dry chillie cluster project will cultivation overlaps with offseason, higher price may provide more margins to farmers. Farmers will be able to access export market for the value-added products and prevailing dried chilli import restriction could provide a ready market for local production. All above benefits are directed towards the sustainable income of the farmers. In addition, below objectives to be achieved to increase economy of selected farmers.</p> <ol style="list-style-type: none"> <li>a. Create competitive market for the value added products</li> <li>b. Increase young generation involvement for seasonal crop cultivation</li> <li>c. To introduce and demonstrate efficient and effective water</li> <li>d. management in dried chilli production</li> <li>e. To organize farmers for group marketing and value addition</li> </ol> <p>With the expansion of cultivation, high quality product will have higher prices and main purpose of the construction of collection centre is to ensure competitive market price for Chilli by adding economic values beyond the existing value.</p> <p>In addition, below objectives to be achieved to increase economy of selected farmers.</p> <ol style="list-style-type: none"> <li>a) To introduce machineries to improve the quality of dry Chilli</li> <li>b) To provide storage facilities prior releasing to the market</li> <li>c) To introduce various value-added products to the market</li> <li>d) To increase direct marketing opportunities</li> </ol> <p>Further, Compost unit facilities with necessary machinery and equipment will be provided to the societies for them to produce their own compost.</p> <p>Since organic manure application envisages a large portion of cost of cultivation. The said compost unit will help the societies to produce their own compost on commercial basis and sell it to the membership for a fee making it as viable business.</p> |
| <p><b>Purpose of the project</b><br/><i>(What is going to be achieved by carrying out the project)</i></p> | <p>The use of technology reduce cost of production on one hand and increase the yield on the other thereby increased margins to the farmer in chilli cultivation. Further, the chilli collection center is used for store, dry and to facilitate direct market opportunities. Electric drier provided to the society will be used to dry the ripen fruit for uniform drying and appearance. This will reduce the cost of manual sun drying while increasing the quality.</p> <p>Dried Chili collection center is driven to achieve below objects.</p> <ol style="list-style-type: none"> <li>a) To introduce machineries to improve the quality of Chilli</li> <li>b) To provide storage facilities prior releasing to the market</li> <li>c) To introduce various value-added products to the market</li> <li>d) To increase direct marketing opportunities</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                            | <p>Simply, ultimate purpose of the overall project is to have sustainable income generation by the agricultural activities. Finally, products should have required value additions to be competitive at the market and proposed processing center will full fill the requirements in different ways. Currently, open drying of Chilli is taking place and required humidity levels are not possible to control by the farmers. Chilli drying machines will make sure the relevant qualities are met. Wastage of these types of crops are higher due to lack of acceptable storage conditions and providing proper storage facility is also can be considered as a key purpose of the project. Further, different value-added products will be directly expose to the market without any interfering of intermediate buyers.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p><b>Alternatives considered</b><br/><i>(Different ways to meet the project need and achieve the project purpose)</i></p> | <p>The “site alternative” would mean feasibility of meeting the project needs at the selected cluster. Chilli is an important cash crop to the farmers in Batticaloa district. There is potential to expand this further, as land and water resources are available in the district. Selected villages have well-established farmer organisations already and production of seasonal crops available immediately. There are experienced ground nuts, chili and vegetable farmers and all these upland cultivations rely on the technological support. Most of the farmers have large scale, low flat farmer-based lands with traditional cultivation practices. These farmers capable of cultivating chilli of their entire uplands, if they are getting technological guidance during the cultivation and also support on value additional services during the post harvesting processes. Further an attitude and market-led vision of field staff is highly acceptable. Hence, the selected area is highly supportive to meet the project needs within short period of time with the expected quality.</p> <p>The “technology alternative” would mean different technology applications to meet the project needs at the selected cluster. On farm technological applications will be introduced by ASMP with the dry chili cluster development plan. Hence, these technological improvements will result the consistent dry chili production to meet the project objectives. Farmer assets such as Hybrid chilli seeds, Seedling trays, Drip tape Irrigation system, Insect proof net, GI pipes and Polymulch film will be provided and society assets will be provided to complete the project. Further, the construction of dry Chilli collection project is to provide value additional services during the post harvesting processes. Hence, technological benefits will be there for the existing farmers.</p> <p>The “no-action” alternative would mean that no Dry chilli cluster project undertake by the ASMP and hence no irrigational support for the existing cultivators in the selected area. That will lead the same agricultural activities and economy of farmers won’t increase. Therefore, conventional farm practices, low productivity, low quality and low income will continue to dominate the economy of the farmers and agriculture sector will not develop in selected villages.</p> |

**PROJECT DESCRIPTION**

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Proposed start date</b>                                                                                              | November 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Proposed completion date</b>                                                                                         | June 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Estimated total cost</b>                                                                                             | LKR 35 million                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Present land ownership</b>                                                                                           | Processing centre land: LRC (Consent letter is attached in annexure 4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description of the project</b><br><i>(With supporting material such as maps, drawings etc. attached as required)</i> | <p>Agriculture Sector Modernization Project identified dried chilli also one of the market competitive and remunerative crops with potential for value addition. Chilli is one of the main spice ingredients in cooking. Thus it should be made available without shortage and price hikes. The country's annual dried chilli requirement of 60,000 mt is largely imported and supplied. Cost of annual import amounts to about Rs. 10 billion.</p> <p>The immediate objectives of the modernization are to increase productivity, decrease cost of production, improve value addition and provide steady market through buy back agreement. The ultimate goal is increased income and employment opportunity in production and value addition.</p> <p>Chilli processing center mainly focus on value addition and post harvesting activities of Chilli. Electric drier provided to the society will be used to dry the ripen fruit for uniform drying and appearance. This will reduce the cost of manual sun drying while increasing the quality. However, construction of the Chilli processing center is the final subproject under the series of projects taking place by ASMP covering these two DS divisions.</p> <p>Construction of Chilli processing center is to add values for the chilli produced by the surrounded farmers. It will provide Chilli drying facilities and also required machinery to process up to marketable varieties of chilli. Further, maintaining storage conditions of seasonal crops are very difficult at home and this processing center will provide facilities to store value added products until get the market access. Once the operation is established, controls of the processing center will be taken by the farmer society. There will be permanent employment opportunities and also daily paid employment opportunities attached to the activities involved.</p> <p>There are altogether about 100 leading farmers who will be benefitted with existing plantations in the most suitable location with maximum exposure to a large number of farmers. The project is keenly looking to get on board at least 40% of female representation for the project. The selection of such farmers will be carried out with the participation of farmer organizations of the area, agriculture instructors, agriculture research and production assistant, agriculture scientist of PPMU, etc.</p> |

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Project Management Team</b></p> | <p>A PMU was established under the Ministry of Agriculture to implement proposed project activities.</p> <p><b>Project Director</b><br/> Agriculture Sector Modernization Project<br/> Ministry of Agriculture<br/> No. 123/2 Pannipitiya Road,<br/> Battaramulla<br/> Tel: +94 112 877 550<br/> Fax: +94 112 877 546<br/> Email: <a href="mailto:projectdirectorasmp2@hotmail.com">projectdirectorasmp2@hotmail.com</a><br/> Web: <a href="https://www.asmp.lk/">https://www.asmp.lk/</a></p> <p>Deputy Project Director – Eastern Province<br/> Agriculture Sector Modernization Project<br/> Ministry of Agriculture</p> <p><b>Environmental and Social Safeguards Specialist</b><br/> Agriculture Sector Modernization Project<br/> Ministry of Agriculture<br/> No. 123/2 Pannipitiya Road,<br/> Battaramulla<br/> Tel: +94 112 877 550<br/> Fax: +94 112 877 546<br/> Email: <a href="mailto:sanjayadms@hotmail.com">sanjayadms@hotmail.com</a><br/> Web: <a href="https://www.asmp.lk/">https://www.asmp.lk/</a></p> <p><b>Nature of Consultations and Inputs Received</b><br/> Consultations with Environmental and Social Safeguard Specialist/ PMU</p> <ul style="list-style-type: none"> <li>• Great potential to increase farmers' income with less labour and inputs.</li> <li>• Ability to save water in the reservoir for the next cultivation season and minimize water crisis during Yala season.</li> <li>• Effective mechanism to attract young farmers for commercial agriculture.</li> <li>• Almost all the farmers cannot cultivate their entire farmland (3 acres) due to lack of water</li> <li>• Farmers are waiting up to the completion of the project to extend the cultivation in their entire.</li> </ul> |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**DESCRIPTION OF THE EXISTING ENVIRONMENT**

| <b>PHYSICAL FEATURES – ECOSYSTEM COMPONENTS</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Topography and terrain</b>                   | <p>The topography of the district varies from flat to undulating. The elevation of the District is not exceeding 8 meters in height above the sea level. It consists of undulating plains and alluvial flats watered by rivers from the mountains of uva and central province.</p> <p>Agro Ecological region represents the combinations of the characteristics of climate, soil and relief which basically determine the land use and management requirements of a given location. Batticaloa District is having one major agroecological region namely Low country Dry Zone (DL). DL region in the district is again sub divided into three sub regions. These Sub regions are DL2B, DL2 and DL4. 96% of the total land area of the Batticaloa district represent DL2B.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Soil (type and quality)</b>                  | <p>The dominant soil group (approximately 21% of the total extent of land) in the District is the Alluvial soil in flat terrain. The next dominant soil group is Reddish Brown earths, Non calcic Brown soils &amp; Low Humic Clay soils; it occupies about 18% of the total land area. Rest of the area covers with several soil groups. They are Non Calcic Brown soil &amp; Low Humic Clay soil in undulating terrain, Non Calcic Brown soil on old alluvium &amp; solonetz in undulating terrain, Reddish Brown earths &amp; Low Humic Clay soil in undulating terrain, Regosols on recent beach and dune sands in flat terrain, Solodized Solonetz and Solonchaks in flat terrain. There are some erosional remnants and Rock Knob Plains in the area. It covers 03% and 11% respectively. The physical and chemical properties of these soils are suitable for agriculture. However, the major constraint to crop production is the low available water rather than the limitations of the soils.</p> <p>Alluvial soil has the highest productivity with respect to other soils. It is present mostly along rivers and is carried by its streams during weathering of rocks. The soil is generally covered by tall grasses and forests, as well as a number of crops, such as rice and wheat. Alluvial soil is one of the best soils, requiring the least water due to its high porosity. The consistency of alluvial soil ranges from drift sand and rich, loamy soil to silt clays.</p> <p>Reddish-brown earth soil is a well-drained soil found on the crest, upper slope, and mid-slope physiographic positions within undulating and rolling landforms. Depth of soil varies according to the physiographic position of the landform. On hilly terrain, surface soil is eroded and quartz rich subsurface soil is present as a surface layer. The size of the quartz fraction and the amount depends on the location. The texture and structure of the sub-surface soil are gravelly sandy loam. Available soil moisture content is very low and therefore very susceptible to drought conditions. The soil is susceptible to soil erosion and should not be exposed. It has low organic matter content but is fair in available nutrient.</p> <p>Low Humic Gley soil is a deep and poorly drained soil found in flat terrain. The texture is sandy clay loam throughout the profile. CaCO<sub>3</sub> depositions</p> |

|                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                  | <p>are present in the subsurface soil as concretions and it is a potential saline soil. Available soil moisture content is medium. It has low organic matter content and low available nutrient. Soil is used mainly for irrigated paddy.</p> <p>The dominant soil type of the Batticaloa district is Alluvial soils of variable drainage and texture; flat terrain and it is 21% of the total land area. Second highest soil type of the district is Reddish Brown earths, non-calcic Brown soils &amp; Low Humic Glay soil in undulating terrain and it is around 18% from the total land area.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p><b>Surface water</b><br/><i>(Sources, distance from the site, local uses and quality)</i></p> | <p>Water bodies represent 5% of the total land area of the Batticaloa district and it contains around 4,145 ha of major tanks, 1,980 ha of minor tanks and 2,104 ha of natural ponds. MS&amp;EP DS division has 28 tanks while 8 tanks are distributed across the Manmunai Pattu (MP) DS division. None of these two DS division has rivers or channels. There are no major perennial rivers that could be tapped to provide irrigation for cultivation.</p> <p>As there are no perennial rivers, seasonal rivers drain the rainfall water into the tank. Nevertheless, surface runoff water is stored in the irrigation tanks. However, there are certain environmental issues, particularly the inland salinity and major and minor irrigation tank pollution that need careful consideration in the district. Tanks, rivers or any other channels were not found in the selected project locations.</p>                                                                                                                                              |
| <p><b>Ground water</b><br/><i>(Sources, distance from the site, local uses and quality)</i></p>  | <p>In Batticaloa district deep confined aquifers of more than 60m deep have a relatively high recharge rate. The sedimentary limestone is highly faulted and it separates the aquifer into a series of isolated blocks, thus forming a number of separate groundwater basins.</p> <p>Based on field investigations, it is not possible to exactly quantify the availability, yield, and capacity within the project area. The groundwater table could be observed at 5-6m depth from the ground surface. The water table goes deeper during the dry season; however, it rises up during the rainy season. Groundwater is used for drinking purposes through dug wells, however, “hard water” is found in the project area.</p> <p>Agricultural wells are a common sight in the area which is used to extract groundwater to irrigate small areas of high-value crops or to provide a supplementary and secure source of water for the paddy crop. Closer to lagoons and the shoreline there is a possibility of contaminating groundwater by salts.</p> |
| <p><b>Air quality</b><br/><i>(Any pollution issues)</i></p>                                      | <p>Any major air pollution sources in the vicinity of the project site are not recorded. Small scale industries and traffic may cause air pollution within the area. However, <a href="https://www.breezometer.com/air-quality-map/air-quality/sri-lanka/Batticaloa">https://www.breezometer.com/air-quality-map/air-quality/sri-lanka/Batticaloa</a> shows that the Air Quality Index (AQI US) of Kirankulam is 35/500 and PM<sub>2.5</sub> is the dominant pollutant.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>ECOLOGICAL FEATURES – ECOSYSTEM COMPONENTS</b></p>                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p><b>Vegetation</b></p>                                                                         | <p>Major land uses and land cover in the District are forests, agriculture, home gardens and water bodies. Forest covers 41% of the total land area</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>(Trees, ground cover, aquatic vegetation)</p>                                                      | <p>and the agricultural land covers 37% of the total land area in the District. The rest of the land covers by the home Garden 5%, water bodies 5%, wetlands 2% and Non Agricultural lands 5%. Other Land types such as Vacant Lands, Unproductive Lands, Sandy Area, Rockout crops etc. cover around 6% of the total land area.</p> <p>Agricultural activities include paddy cultivation and high lands are used for seasonal crops such as groundnuts, chili, long bean, and several cereal crops. Further, perennial crops such as Palmyra, coconut, Cashew are found within the selected area. addition, it was observed that many Adathoda and some native species such Kohomba, Murunga, etc.</p>                                                                    |
| <p><b>Presence of wetlands</b></p>                                                                    | <p>Batticaloa district has water bodies covering around 5% of the total land area. Annexure 5 shows the distribution of water bodies of the Batticaloa district. These water bodies include lagoons, major and minor tanks, natural ponds, and rivers and streams. There were no Wetlands observed within the selected project locations.</p>                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p><b>Fish and fish habitats</b></p>                                                                  | <p>Livestock and Fishing play a supplementary role in the district's economic activities. Nearly 14,000 fishermen are found in the Batticaloa district. Manmunai Pttu DS division has around 700 fishermans and it is higher than the agricultural occupation in the DS division. Manmunai south &amp; Eruvil Pattau DS division has around 800 fishing employees. Associated waterways were not identified as fish habitats around the selected areas.</p>                                                                                                                                                                                                                                                                                                                |
| <p><b>Birds</b><br/>(waterfowl, migratory birds, others)</p>                                          | <p>Water bodies/Wetlands, Coastal Natural Habitats associated vegetation, natural scrublands and abandoned paddy fields can be potential bird habitats including migratory birds. Many large birds such as owls, eagles and hawks hunt rodents.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p><b>Presence of special habitat areas</b> (special designations and identified sensitive zones)</p> | <p>Some areas in the district are protected by gazette notifications. The protected area network includes Forest, Wild life reserves and corridors, other state forest lands, Grass Lands, Archeologically and Historically significant places, Areas of natural beauty and natural features of exceptional value; Water bodies/Wet lands, Coastal Natural Habitats and Urban Forests/Urban Parks.</p> <p>Batticaloa district has protected areas such as forest reserves, archaeological reserves, coastal reserves. More than 99% of the protected area includes forest reserves and water bodies. Refer to Annexure 6 which shows the reserve forest of Batticaloa district. However, the selected project areas have not been identified as special habitat areas.</p> |
| <p><b>5.3 OTHER FEATURES</b></p>                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p><b>Residential/Sensitive Areas</b><br/>(E.g., Hospitals, Schools)</p>                              | <p>Selected project locations are scattered in six villages namely Kaluthavali, Thetativu, Mankadu, Chddipalayam, Mahiloor and Kurukkalmadam. Manmunai Pattu (MP) - Arayampathy DS division has 27 GN divisions and project locations are distributed across two villages namely Kirankulam and Puthukudyruppu. Commonly, there are few Hindu temples are found across these villages. As per the selected random farmland, there is a</p>                                                                                                                                                                                                                                                                                                                                 |

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | <p>Hindu temple call Vishnu Kovil around 200m away. Distances for the closest residential/sensitive locations are varying from the respective farmlands. The closest school is called Bt /Pd/ Mankadu Saraswathi Maha Vidyalayam and its around 750m away from the selected farmland.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p><b>Traditional, economic and cultural activities</b></p> | <p>Out of the 14 DS divisions of the Batticaloa district, only two DS divisions are selected have been selected for the implementation of the Agriculture Sector Modernization Project (ASMP). Manmunai South &amp; Eruvil Pattu (MS&amp;EP) Kaluwanchikudy DS division has 45 GN divisions and this selected project locations are scattered in six villages namely Kaluthavali, Thetativu, Mankadu, Chddipalayam, Mahiloor and Kurukkalmadam. Manmunai Pattu (MP) - Arayampathy DS division has 27 GN divisions and project locations are distributed across two villages namely Kirankulam and Puthukudyruppu.</p> <p>Six villages of Manmunai South &amp; Eruvil Pattu (MS&amp;EP) Kaluwanchikudy DS division represent farmlands from different GN Divisions. Total population of these selected GN divisions is 29,494. It represents 14,377 male and it is 49% of the total population. Female population of these selected GN divisions is 15,117 and it represent 51% of the total population. All are Sri Lankan Tamil and only 7 Buddhist were found in the selected GN divisions. 96% of the selected GN division is Hindu and 2% represent Roman catholic.</p> <p>Only around 57% of the population is between 20-60 age category in the selected GN divisions of Manmunai South &amp; Eruvil Pattu DS division. Nearly 12.0% of the population of the selected GN divisions is above 60 years of age and 31% of the population is below 20 years of age. The average family size in the GN division is 3.0. As per the age structure, nearly 67% of the population have registered as voters eligible for voting in the public elections. Accordingly, there are 3468 receiving Samurdhi in these GN divisions.</p> <p>Two villages from Manmunai Patty DS division were selected for the project and these farm lands are scattered across few GN divisions. Total population of these selected GN divisions is 10,706. It represents 5,279 male and it is 49% of the total population. Female population of these selected GN divisions is 5,437 and it represent 51% of the total population. 100% Sri Lankan Tamil ethnicity was found in the GN divisions. 72 Roman catholic, 122 other Christians are found while all others are Hindu.</p> <p>Only around 58% of the population is between 20-60 age category in the selected GN divisions of Manmunai Pattu DS division. Nearly 10% of the population of the selected GN divisions is above 60 years of age and 33% of the population is below 20 years of age. The average family size in the GN division is 3.0. However, only 278 farmers are found in these selected GN divisions. Accordingly, there are 1,944receiving Samurdhi in these GN divisions.</p> |
| <p><b>Archaeological resources</b></p>                      | <p>Batticaloa district does not have considerable land extent having archaeological resources. Total archaeological reserved land area is</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                                                |                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><i>(Recorded or potential to exist)</i></p> | <p>around 18 ha and Manmunai Pattu South &amp; Eruvil Pattu DS division does not have any identified archaeological resources. However, Manmunai Pattu DS division has around 1.2 ha of archaeological resources while highest land archaeological land area is covered by Koralai Pattu North DS division.</p> |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## **PUBLIC CONSULTATION**

The consultation was held with the support of the project director, project engineer, and agricultural scientist of the Northern Province and the project coordinator of the selected DS division. Overall project implementation and future plan were discussed with them and deep level information was collected. They were trying hard to rehabilitate and distribute water as soon as possible to the beneficiaries.

Farmer gatherings were not conducted due to the pandemic situation. However, on-field discussions were conducted with benefitted farmers while ensuring COVID 19 safety precautions. The conclusion of the consultation was clear, and it was to rehabilitate the pump house and provide water immediately starting from next season onwards. Further, the following comments were taken during the discussions held with farmers in the selected area.

- **Existing issues due to an unavailability of a collection center**

During high heat and festivals periods they fetched very high price. Again, in rainy and also in lock down periods price fell far below and sometime they could not even dispose their produce and allowed to go waste. If the producer group can store Chilli in good condition until the next peak price period, they will be able to get higher income. Thus, processing the excess produce during glut period is very essential for the producer groups to get higher margins for their membership. If they were able to collect at one place, they will be able to grade it and sell at higher price than at present. Thus, collection centre is necessary for the members to bring their produce to one location and do the value addition like grading, packing etc. before disposal

- **Direct access to the market**

As both DS divisions do not have a collection centre of their own, producer groups have to visit each membership fields and collect their produce for sale. Further, in this instance producer groups sell the produce without grading. In past years, producer groups sold their dry Chilli ranging from Rs 450 to Rs 550 per kg. Thus, there is a high-income fluctuation to farmers and farmers looking to have a higher and stable price in the future.

Concerns were raised from beneficiaries that they are not competent enough to challenge the current market with the existing quality of the Dry Chilli. Less damaged, and red-looking dry chilli is having high price at the market and that is to be obtained from the Chilli drying machines. Further, they will be exposed to the market as a united farmer organisation and it will reduce the high price fluctuation with the higher bargaining power.

- **Expansion of Chilli cultivation**

With the availability of high-quality value-added product in hand, farmers will get economic benefits by directly engaging with local market. There are series of projects to be taken place to increase the cultivation of Chilli and the proposed processing center will make sure the high-quality product in the market with higher price. This will increase the income of farmers and more engagement is expected.

- **Failure on export market**

One of the main objectives of the project is to full fill the local market-based production and doubt were highlighted that what will happen if local market demand is lower than the supply. Are there any options available in the local market for excessive production?

- **Other ASMP projects**

Beneficiaries are well aware on the projects proposed by the ASMP and waiting for the completion of lift irrigation project at first. Some beneficiaries already cultivating Chili up to 0.25-0.5 acers along with the other crops. They are very keen to expand the chili cultivation once the technological package received and willing to take technical support towards the high yield.



*Figure 1: Selected land for the construction*

The majority of the community is willing to support the project activities as they will benefit from the proposed sub-project directly. Summary of social screening feedbacks is shown below.

| Name                      | Details                                                                                                                                              | Matter Discussed/Suggestions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vaiyamuththu Shashikumar  | is a 47 years old farmer having six family members including himself. He is a leader of one of the farmer organisation and he has 1 acer deed land.  | Only a part of the land is cultivated twice a year using tube well water. The current water level of the open well is around 20 feet below the ground level. However, he is managing cultivation activities using tube well water and mainly seasonal crops are cultivated such as Pathola, Long bean and Chilli. He sells crops in to the Arayampathy market and current price of green chilli is around 150 LKR. He is waiting to get the technological support to extend chilli cultivation up to entire land and he hopes to manage water with the introduction of drip irrigation system. |
| Shivaneshthura Shivarasha | he is a 46 years old farmer with five family members. He also has 1 acer deed highland and it is the land proposed for the chilli cultivation.       | Chilli and Brinji is the main crop he is cultivating using a tube well. However, he sends the crops to the Kalmunai market which is bigger than the Arayampathy market. Currently, seasonal crops are cultivated based on the water availability of the tube well. As per his experience, it is enough to cultivate two seasons marginally.                                                                                                                                                                                                                                                    |
| A. Kularathanam           | Kularathanam is a 50 years old farmer having four family members. He was representing Puthukudyruppu South and he has 2 acers of Cashew cultivation. | Two acer highlands is used for Cashew and 1 acer land is currently used for seasonal crop cultivation. Tube well water is used for the cultivation and he already has one acer of Chilli cultivation. His ambition is to get the technical support from the project for 0.5 acer cultivation package and to extend up to his entire land.                                                                                                                                                                                                                                                      |
| K.Satheesilam             | He is 54 years old farmer having 1 acer rent land. He has four family members including himself.                                                     | Chilli and Brinji is the main crop he is cultivating using a tube well. He sends his crop to the Arayampathy market and he is not satisfying with the current market price of dry chilli.                                                                                                                                                                                                                                                                                                                                                                                                      |
| T. Nadeshalingam          | is a 50 years old farmer in a 3 memberfamily. He has 1.5 acer deed high land for seasonal cultivation.                                               | Entire 1.5 acer of high land is used for seasonal crops and he claims that he is extracting enough water from the tube well for his entire cultivation. He is already having 1 acer chilli cultivation. He is very keen on the benefits which are derived from the Chilli collection and processing center.                                                                                                                                                                                                                                                                                    |
| N. Kannasundaram          | He is a 51 years old farmer from Mankadu. He has four family members and 1 acer permit land is used for the cultivation                              | Main crop is green chilli and lady fingers are cultivated to full fill the remaining part of the land. He also uses wate from tube well. His closest market is Kalmunai and he does not satisfy the price of Hybrid chilli. He expects to have stable high price for the chilli through the collective approuch from the proposed processing center.                                                                                                                                                                                                                                           |

|                                                    |                                                                                                                    |                                                                                                                                                                                                                                                                   |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| K.Nagalingam                                       | She is 48 years old farmer having 3 family members.                                                                | She has 1 acer deed high land and water is used from tube well for the cultivation. Mainly chilli and lady finger are cultivated using flood irrigation. She is interested on the drip irrigation technology and issues related to the pesticides were discussed. |
| M. Nawanaththana Raja (38 Years old female farmer) | All these farmers are having 1 acer deed high land and all of them are using tube well water for their cultivation | Lady fingers are more common among these farmers and few other seasonal crops are available. Existing wild animal threats were highlighted. It was identified that the crop damages are mainly due to Rabits and Monkeys.                                         |
| S. Kopalasingham (48 Years old farmer)             |                                                                                                                    |                                                                                                                                                                                                                                                                   |
| S. Suntharalingam (40 Years old farmer)            |                                                                                                                    |                                                                                                                                                                                                                                                                   |
| P. Pakeelatharan (44 years old farmer)             |                                                                                                                    |                                                                                                                                                                                                                                                                   |
| M. Rajendram (39 years old farmer)                 |                                                                                                                    |                                                                                                                                                                                                                                                                   |



*Figure 2: Onsite discussions with farmers*

- **Existing environmental issues**

Proposed construction will be taken place in a bare land closest structure is a rice mill which is around 100 m away from the selected location. No anticipated negative impacts were identified during the construction activities.

**ENVIRONMENTAL EFFECTS AND MITIGATION MEASURES**

SCREENING FOR POTENTIAL ENVIRONMENTAL IMPACTS

|   | Screening question                                                                                                                                                                                                               | Yes | No | Significance of the effect<br>(Low, moderate, high) | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Will construction and operation of the Project involve actions which will cause physical changes in the locality (topography, land use, changes in water bodies, etc)                                                            | ✓   |    | 1) Low-moderate                                     | Construction of processing centre will take place at a bare land and construction activities will slightly change the topography. Debris/unsuitable excavated or clearing material should not be disposed improperly.                                                                                                                                                                                                                                          |
| 2 | Will the Project involve use, storage, transport, handling or production of substances or materials which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health? | ✓   |    | Moderate                                            | In terms of construction of the building will have substances which could harm human health and environment such as cement.<br><br>During the construction transport of material and construction activities including vegetation removal, site preparation, material piles will emit dust, and fugitive particles. However, as the affected area is small, and mitigation is straight forward; therefore significance of the effect can be considered as low. |

|   | Screening question                                                                        | Yes | No | Significance of the effect<br>(Low, moderate, high) | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---|-------------------------------------------------------------------------------------------|-----|----|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3 | Will the Project produce solid wastes during construction or operation?                   | √   |    | Low                                                 | <p>Lands clearing and preparation stage there can be an insignificant solid waste generation. During the operation solid organic waste will be produced as crop residuals.</p> <p>During the construction of the building, excavated material and debris will be generated and contractor is responsible to manage this waste properly until it is disposed properly. Solid waste collected on the site should be disposed by the contractor himself at a suitable location.</p> <p>During the operation, solid waste will be generated such as residual crops from the value addition process. Since it is an operation center having machineries, there will be disposable machinery or related parts with less frequency. Solid waste collected on the site should be disposed by the farmer societies themself at a suitable location.</p> |
| 4 | Will the Project release pollutants or any hazardous, toxic or noxious substances to air? |     | √  |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|   | Screening question                                                                                                                                                   | Yes | No | Significance of the effect<br>(Low, moderate, high) | Remarks                                                                                                                                                                                                                                                                                                                                                                  |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                                                                                                                                                      |     |    |                                                     |                                                                                                                                                                                                                                                                                                                                                                          |
| 5 | Will the Project cause noise and vibration or release of light, heat energy or electromagnetic radiation?                                                            | ✓   |    | Low                                                 | During construction of processing center, noise and vibration impacts can be anticipated. Site clearing, excavation, backfilling, compaction, loading and unloading of materials are potential sources of noise and vibration during construction.<br><br>Further, Noise and vibration impacts can be anticipated during operational activities of the processing enter. |
| 6 | Will the Project lead to risks of contamination of land or water from releases of pollutants onto the ground or into surface waters, groundwater or coastal wasters? |     | ✓  |                                                     |                                                                                                                                                                                                                                                                                                                                                                          |
| 7 | Will the project cause localized flooding and poor drainage during construction<br><br>Is the project area located in a flooding location?                           |     | ✓  |                                                     | The project will not cause localised flooding                                                                                                                                                                                                                                                                                                                            |

|    | Screening question                                                                                                                                                          | Yes | No | Significance of the effect<br>(Low, moderate, high) | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8  | Will there be any risks and vulnerabilities to public safety due to physical hazards during construction or operation of the Project?                                       | √   |    | Low                                                 | No severe health and safety hazard identified. Better hazard identification and prevention and corrective measures during operation will eliminate the risk associate.<br><br>All the safety measures deployed in "Best Engineering Practices" need to be adopted during the construction period.<br><br>Safety issues in terms of injuries due to construction work, using heavy machinery could be anticipated. However, such incidences can be avoided with proper precautions exercised on health and safety aspects. |
| 9  | Are there any transport routes on or around the location which are susceptible to congestion or which cause environmental problems, which could be affected by the project? | √   |    | Low                                                 | Chilli transportation from cultivated lands to post harvesting storages and transportation from post harvesting storages to shipments/or any other location will be taken place. No creation of significant environmental problems.                                                                                                                                                                                                                                                                                       |
| 10 | Are there any routes or facilities on or around the location which are used by the public for access to recreation or other                                                 |     | √  | N/A                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|    | Screening question                                                                                                                                                                                                                                | Yes | No | Significance of the effect<br>(Low, moderate, high) | Remarks                                                                                     |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-----------------------------------------------------|---------------------------------------------------------------------------------------------|
|    | facilities, which could be affected by the project?                                                                                                                                                                                               |     |    |                                                     |                                                                                             |
| 11 | Are there any areas or features of high landscape or scenic value on or around the location which could be affected by the project?                                                                                                               |     | ✓  |                                                     | No areas or features with high landscape or scenic value on or around the location.         |
| 12 | Are there any other areas on or around the location which are important or sensitive for reasons of their ecology e.g. wetlands, watercourses or other water bodies, the coastal zone, mountains, forests which could be affected by the project? |     | ✓  |                                                     | No important or sensitive areas identified on the project location affected by the project. |
| 13 | Are there any areas on or around the location which are used by protected, important or sensitive species of fauna or flora e.g. for breeding, nesting, foraging, resting, migration, which could be affected by the project?                     |     | ✓  |                                                     | No such identified areas                                                                    |
| 14 | Is the project located in a previously undeveloped area where there will be loss of green field land                                                                                                                                              |     | ✓  |                                                     | No such Greenfields are encountered.                                                        |

|    | Screening question                                                                                                                                                                                                                                                     | Yes | No | Significance of the effect<br>(Low, moderate, high) | Remarks                                                         |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-----------------------------------------------------|-----------------------------------------------------------------|
| 15 | Will the project cause the removal of trees in the locality?                                                                                                                                                                                                           |     | ✓  |                                                     | No removal of trees required.                                   |
| 16 | Are there any areas or features of historic or cultural importance on or around the location which could be affected by the project?                                                                                                                                   |     | ✓  |                                                     | No features of historic importance identified                   |
| 17 | Are there existing land uses on or around the location e.g. home gardens, other private property, industry, commerce, recreation, public open space, community facilities, agriculture, forestry, tourism, mining or quarrying which could be affected by the project? |     | ✓  |                                                     |                                                                 |
| 18 | Are there any areas on or around the location which are densely populated or built-up, which could be affected by the project?                                                                                                                                         |     | ✓  |                                                     | No densely populated or built-up areas affected by the project. |
| 19 | Are there any areas on or around the location which are occupied by sensitive land uses e.g. hospitals, schools, places of worship, community facilities, which could be affected by the project                                                                       |     | ✓  |                                                     | No sensitive land-uses in the vicinity affected by the project. |

|    | Screening question                                                                                                                                                                                                                     | Yes | No | Significance of the effect<br>(Low, moderate, high) | Remarks                                                                                  |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-----------------------------------------------------|------------------------------------------------------------------------------------------|
| 20 | Are there any areas on or around the location which contain important, high quality or scarce resources e.g. groundwater, surface waters, forestry, agriculture, fisheries, tourism, minerals, which could be affected by the project? |     | ✓  |                                                     | the ongoing period.                                                                      |
| 21 | Are there any areas on or around the location which are already subject to pollution or environmental damage e.g. where existing legal environmental standards are exceeded, which could be affected by the project?                   |     | ✓  |                                                     | No location where any environmental standards exceeded or have environmentally polluted. |

ENVIRONMENTAL MANAGEMENT PLAN

**Contractor’s responsibility for mitigating adverse environmental issues raised during agricultural activities**

| SN | Potential Environmental Impacts and Risk Level                                 | Key activities project causing the impact                                                                                                                 | Mitigation Measures proposed and action to be implemented by the Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Public complaints and lack of community support for the project implementation | <ul style="list-style-type: none"> <li>• Information Disclosure among Stakeholders</li> <li>• Community Outreach activities including training</li> </ul> | <ul style="list-style-type: none"> <li>• Discussions should be conducted with the beneficiary farmers including women, and youth</li> <li>• The beneficiary farmers selection based on the criteria which were developed at stakeholders meeting and identifying of beneficiary farmers were undertaken transparently</li> <li>• Residents in the area will be briefed on the project, purpose and design, and outcomes with a comprehensive discussion</li> <li>• Communication and training activities focusing on women, youth, and farmers who are poor in communication</li> <li>• The contractor should take note of all impacts, especially temporary issues and safety hazards that will be of concern to the cropping pattern of the farmers. All possible impacts will be mitigated as stipulated in the EMP to mitigate them</li> <li>• The contractor will maintain a log of any grievances/complaints and actions are taken to resolve them</li> <li>• A copy of the EMP should be available at all times at the project supervision office on site</li> </ul> |
| 2  | Spreading COVID 19 virus                                                       | <ul style="list-style-type: none"> <li>• All activities</li> </ul>                                                                                        | <ul style="list-style-type: none"> <li>• The contractor must ensure that all workers, including managers are well trained on COVID 19 safety precautions published by health ministry.</li> <li>• All construction activities should follow the ‘<b>INTERIM GUIDANCE ON COVID-19 (VERSION 1: APRIL 7, 2020)</b>’ recommended by World Bank’s Operations Environmental and Social Review Committee</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| SN | Potential Environmental Impacts and Risk Level             | Key activities project causing the impact                                                                                          | Mitigation Measures proposed and action to be implemented by the Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3  | Water Quality                                              | <ul style="list-style-type: none"> <li>• Spill out of fuels and lubricants from machinery</li> <li>• Vegetation removal</li> </ul> | <ul style="list-style-type: none"> <li>• Avoid stockpiling of earth fill especially during the monsoon season unless covered by tarpaulins or plastic sheets</li> <li>• Prioritize re-use of excess spoils and materials in the construction works.</li> <li>• Install temporary silt traps or sedimentation basins along the drainage leading to the water bodies;</li> <li>• Place storage areas for fuels and lubricants away from any drainage leading to water bodies;</li> <li>• Dispose of any wastes generated by construction activities in designated sites.</li> <li>• Irrigation works must be planned to be carried out during times of lowest flow</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4  | Exposing and damaging of physical cultural resources (PCR) | <ul style="list-style-type: none"> <li>• Site preparatory work</li> <li>• Vehicle and machinery movements</li> </ul>               | <ul style="list-style-type: none"> <li>• Upon discovery of physical cultural material during project implementation work, the following should be carried out</li> <li>• Immediately stop construction activities</li> <li>• With the approval of the resident engineer delineate the discovered site area.</li> <li>• Secure the site to prevent any damage or loss of removable objects. In case of removable antiquities or sensitive remains, a night guard should be present until the responsible authority takes over.</li> <li>• Through the Resident Engineer, notify the responsible authorities, the Department of Archaeology, and local authorities within 24 hours.</li> <li>• Submit a brief chance to find the report, within a specified time period, with the date and time of discovery, location of discovery, description of finding, estimated weight and dimension of PCR, and temporary protection implemented.</li> <li>• Responsible authorities would be in charge of protecting and preserving the site before deciding on the proper procedures to be carried out.</li> <li>• An evaluation of the finding will be performed by the Department of Archaeology who may decide to either remove the PCR deemed to be of significance, further</li> </ul> |

| SN | Potential Environmental Impacts and Risk Level                | Key activities project causing the impact                                                                                                                                      | Mitigation Measures proposed and action to be implemented by the Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                               |                                                                                                                                                                                | <p>excavate within a specified distance of the discovery point and conserve on-site, and/or extend/reduce the areas demarcated by the contractor, etc. This should ideally take place within about 7 days.</p> <ul style="list-style-type: none"> <li>• Construction work could resume only when permission is given from the Department of Archaeology after the decision concerning the safeguard of the heritage is fully executed.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                   |
| 5  | Spreading of Invasive Alien Species                           | <ul style="list-style-type: none"> <li>• Vegetation clearing</li> <li>• Material transportation</li> <li>• Desilting</li> </ul>                                                | <ul style="list-style-type: none"> <li>• Close monitoring of transportation, storage of borrowing material for the spread of any invasive species must be done.</li> <li>• Vehicles should be covered during transportation of cleared vegetation to and from the construction site.</li> <li>• Borrow material to be brought from properly identified borrow pits and quarry sites, the sites should be inspected in order to ensure that no invasive plant species are being carried with the burrowing material.</li> <li>• Washing the vehicles should be conducted periodically to prevent carrying any invasive species</li> <li>• The construction site should be inspected periodically to ensure that no invasive species are establishing themselves at the site.</li> <li>• Good housekeeping</li> </ul> |
| 6  | Noise Pollution & Vibration that can affect nearby structures | <ul style="list-style-type: none"> <li>• Operation of equipment and machinery.</li> <li>• Material storage and transport</li> <li>• Use of hammer type pile driving</li> </ul> | <ul style="list-style-type: none"> <li>• Working time for noise/vibration generation activities should be restricted and carried out only from 6.00 am to 6.00 pm.</li> <li>• All equipment and machinery should be operated of noise not to exceed 75 dB (during construction) as practical as possible. Regularly maintenance of all construction vehicles and machinery to meet noise control regulations stipulated by the CEA in 1996 (Gazette Extra Ordinary, No 924/12). If the construction activities happen during the night-time, it is necessary to maintain the noise level at below 50 dB.</li> </ul>                                                                                                                                                                                                 |

| SN | Potential Environmental Impacts and Risk Level                                           | Key activities project causing the impact                                                                                                                                                                         | Mitigation Measures proposed and action to be implemented by the Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                          | will generate high noise and vibration.                                                                                                                                                                           | <ul style="list-style-type: none"> <li>• Use of mechanically driven saw blades for tree felling will make the noise levels restrict to only a short period of time.</li> <li>• Construction equipment and machinery should be maintained in good condition. The contractor shall submit the list of high noise/vibration generating machinery &amp; equipment to the PE for approval</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 7  | Air Pollution including dust generation that can affect nearby vegetation and households | <ul style="list-style-type: none"> <li>• Site Preparation activities setting up of material storage yards, and removal of vegetation</li> <li>• Transport of construction material and storage on site</li> </ul> | <ul style="list-style-type: none"> <li>• In the construction method statement, the contractor should clearly designate areas for maintaining material stockpiles, waste stockpiles, labor camps, and vehicle maintenance yards. These dust-emitting sources should be located away from human activity and natural drainage paths as much as possible.</li> <li>• All heavy equipment and machinery shall be fitted in full compliance with the national and local regulations.</li> <li>• Stockpiled soil and sand shall be slightly wetted before loading, particularly in windy conditions.</li> <li>• The site should be wetted at least 2/3 times a day during dry weather to keep dust levels low.</li> <li>• Vehicles transporting soil, sand, and other construction materials shall be covered. Limitations to the speeds of such vehicles are necessary. Transport through densely populated areas should be avoided.</li> <li>• Regular and proper maintenance of construction vehicles and machinery to avoid air emissions.</li> <li>• There should be no burning of wastes on-site.</li> <li>• Until removal to arranged disposal sites, waste from demolition shall be held stockpiled in a place with minimal interference with local drainage paths and obstruction to traffic, local residents.</li> </ul> |

| SN | Potential Environmental Impacts and Risk Level                                        | Key activities project causing the impact                                                                                                  | Mitigation Measures proposed and action to be implemented by the Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8  | Solid Waste Disposal                                                                  | <ul style="list-style-type: none"> <li>• Site clearing</li> <li>• Construction waste</li> <li>• Waste from labour resting areas</li> </ul> | <ul style="list-style-type: none"> <li>• The contractor shall make a list of all types of waste resulting from the construction activity, and obtain direction from the LA on possible disposal sites for each waste type.</li> <li>• Any hazardous type of waste shall be dealt with special care and instructions from the LA.</li> <li>• The contractor shall document all types and quantities of waste generated and removed from the site and the disposal locations.</li> <li>• The contractor shall remove waste from the site each day and dispose of the waste in the LA approved site/s.</li> </ul>                                                                                                                                                                                                                                                                                                                                    |
| 9  | Blocking of surface drainage paths leading to localized flooding and ponding of water | <ul style="list-style-type: none"> <li>• Site Preparation including provision of access roads, material/waste piles</li> </ul>             | <ul style="list-style-type: none"> <li>• Until transported out to arranged disposal sites, debris and waste from site preparation work and desilting shall be stockpiled in a place with minimal interference with local drainage paths and obstruction to traffic and local residents. The contractor shall identify areas for stockpiling material and waste.</li> <li>• The stockpiles should be suitably covered to minimize wash-offs to nearby waterways.</li> <li>• If impacts to surface drainage cannot be avoided leading to ponding of rainwater and inconvenience to people, the contractor must provide an adequate surface drainage system to safely remove water from the site to the canal to avoid on-site ponding or flooding.</li> <li>• Proper planning to avoid construction during the rainy season.</li> <li>• Preventing total blockage of streams / providing alternative drainage paths during construction.</li> </ul> |
| 10 | Public/occupational safety hazard                                                     | <ul style="list-style-type: none"> <li>• Site clearing, storage of equipment, material etc.</li> <li>• Increased traffic of</li> </ul>     | <p><b>Training</b></p> <ol style="list-style-type: none"> <li>1. The contractor must ensure that all workers, including managers, are trained on occupational health and public safety risks and mitigation measures for the site, prior to commencement of construction.</li> </ol> <p><b>Personal Protective Equipment</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| SN | Potential Environmental Impacts and Risk Level | Key activities project causing the impact                                                     | Mitigation Measures proposed and action to be implemented by the Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----|------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                | heavy vehicles for material transportation<br>• Noise and vibration of construction machinery | <ol style="list-style-type: none"> <li>2. All workers will be provided with necessary PPEs (basic should include a safety helmet, protective footwear, and high visibility jackets).</li> <li>3. In addition, the contractor shall maintain in stock at the site office, gloves, ear muffs, goggles, dust masks, safety harness, and any other equipment considered necessary.</li> <li>4. A safety inspection checklist should be prepared to take into consideration what the workers are supposed to be wearing and monitored.</li> </ol> <p><b>Site Delineation and Warning Signs</b></p> <ol style="list-style-type: none"> <li>5. The entire construction site should be delineated using devices such as cones, lights, tubular markers, orange and white stripes, and barricades to inform oncoming vehicular traffic and pedestrians in the area about work zones.</li> <li>6. All digging and installation work items that are not accomplished should be isolated and warned of by signposts and flash lamps in the nighttime.</li> <li>7. Dangerous warning signs should be raised to inform the public of particular dangers and to keep the public away from such hazards.</li> <li>8. Trenches should be progressively rehabilitated once work is completed.</li> <li>9. Overloading of vehicles with materials should be controlled</li> <li>10. Construction wastes should be removed as much as possible within 24 hours from the site to ensure public safety.</li> <li>11. The safety inspection checklist must look to see that the delineation devices are used, whether they are appropriately positioned if they are easily identifiable, and whether they are reflective.</li> </ol> <p><b>Equipment safety</b></p> <ol style="list-style-type: none"> <li>12. Work zone workers use tools, equipment, and machinery that could be dangerous if used incorrectly or if the equipment malfunctions. Inspections must be carried out</li> </ol> |

| SN | Potential Environmental Impacts and Risk Level | Key activities project causing the impact | Mitigation Measures proposed and action to be implemented by the Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----|------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                |                                           | <p>to test the equipment before it is used so that worker safety can be secured. Inspections should look for evidence of wear and tear, frays, missing parts, and mechanical or electrical problems.</p> <p><b>Emergency Procedures</b></p> <p>13. An emergency aid service must be in place at the worksite.</p> <p>14. During health and safety training, site staff should be properly briefed as to what to do in the event of an emergency, such as who to notify and where to assemble in an emergency. This information must be conveyed to employees by the site manager on the first occasion a worker visits the site.</p> <p><b>Construction camps</b></p> <p>15. Construction camps should have adequate sanitation facilities for construction workers to control the transmission of infectious diseases.</p> <p>16. Avoid housing workers in camps and provide socio-economic benefits locally by employing local people. If there is no alternative to employing workers from elsewhere, locate accommodation camps away from communities on land acquired from willing sellers. Provide labor camps with adequate sanitation, waste disposal, and health facilities according to labor laws. Clear work campsites after use and reinstate vegetation. Conduct programs to raise worker awareness of HIV/AIDS.</p> <p><b>Information management</b></p> <p>17. Develop and establish the contractor’s own procedure for receiving, documenting, and addressing complaints from the affected public and nearby communities.</p> <p>18. Provide advance notice to local communities by way of information boards or leaflets about the schedule of construction activities, interruption to services and access, etc.</p> |

| SN | Potential Environmental Impacts and Risk Level                        | Key activities project causing the impact                                                                                                       | Mitigation Measures proposed and action to be implemented by the Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11 | Damage to Flora and Fauna                                             | <ul style="list-style-type: none"> <li>• Vegetation clearing</li> </ul>                                                                         | <ul style="list-style-type: none"> <li>• Speed limits and operating times for the construction vehicles should be imposed.</li> <li>• Due consideration should be given to carefully clearing of vegetation avoiding the destruction of habitats of fauna.</li> <li>• The de-silted matter shall immediately be disposed of off to pre-decided disposal sites.</li> <li>• The contractor will take reasonable precautions to prevent workmen or any other persons from removing and damaging any flora (plant/vegetation) and fauna (animal) including fishing in any water body and hunting of any animal.</li> <li>• If any wild animal is found near the construction site at any point of time, the contractor will immediately upon discovery thereof acquaint the Engineer and carry out the Engineer's instructions for dealing with the same.</li> <li>• The Engineer will report to the nearby Forest Department /Department of Wild Life Conservation (range office or divisional office) and will take appropriate steps/ measures if required in consultation with the forest officials.</li> <li>• It is recommended to do the project work day time only.</li> </ul> |
| 12 | Soil erosion, sedimentation of nearby waterbodies and low-lying areas | <ul style="list-style-type: none"> <li>• Construction work</li> <li>• Removal of topsoil</li> <li>• Vegetation clearance</li> </ul>             | <ul style="list-style-type: none"> <li>• Soil stockpiles and other construction material should not be placed within the bed or banks of the tanks or canal.</li> <li>• Installing and maintaining permanent erosion and sediment control measures such as silt traps to avoid sediment runoff into the tank and nearby waterways.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 13 | Access restrictions and public inconvenience                          | <ul style="list-style-type: none"> <li>• Material transportation and storage</li> <li>• Noise, vibration, dust and waste piling from</li> </ul> | <ul style="list-style-type: none"> <li>• If any temporary interruptions to house access taken place, the contractor should inform the concerned houses prior to breaching access.</li> <li>• Provision of access during designated times of the day or where possible provides temporary access paths for pedestrians on the downstream side of the bund.</li> <li>• If the road is closed completely for a period, signage to be put up at both ends.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| SN                             | Potential Environmental Impacts and Risk Level              | Key activities project causing the impact                                                                                                          | Mitigation Measures proposed and action to be implemented by the Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                |                                                             | demolition and construction                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Post construction phase</b> |                                                             |                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 14                             | Clearing/Closure of Construction Site/Labour Accommodations |                                                                                                                                                    | <ul style="list-style-type: none"> <li>• Contractor to prepare site restoration plans for approval by the engineer. The plan is to be implemented by the contractor prior to demobilization. This includes burrowing sites and storage yards as well</li> <li>• On completion of the works, all temporary structures will be cleared away, all rubbish cleared, excreta or other disposal pits or trenches filled in and effectively sealed off and the site left clean and tidy, at the contractor’s expenses, to the entire satisfaction of the engineer.</li> </ul> |
| 15                             | Solid waste                                                 | <ul style="list-style-type: none"> <li>• Operational stage Chilli related organic waste, general household waste &amp; machinery parts.</li> </ul> | <ul style="list-style-type: none"> <li>• Any hazardous type of waste shall be dealt with special care and instructions from the LA.</li> <li>• The farmer societies shall document all types and quantities of waste generated and removed from the site and the disposal locations.</li> <li>• The farmer societies shall remove waste from the site each day and dispose of the waste in the LA approved site/s.</li> </ul>                                                                                                                                          |
| 16                             | Environmental Enhancement/Landscaping                       |                                                                                                                                                    | <ul style="list-style-type: none"> <li>• Landscape plantation, including turfing shall be taken up as per either detailed design or typical design guidelines given as part of the Bid Documents.</li> <li>• The contractor also shall remove all debris, piles of unwanted earth, spoil material, away from the site and disposed at locations designated or acceptable to the Engineer or as per the stipulated waste management criteria of this EMP</li> </ul>                                                                                                     |

**COST OF MITIGATION**

| No | Environmental mitigation measure                                                     | Cost (LKR) | Remarks                                                                  |
|----|--------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------|
| 1  | Information Boards, leaflets                                                         | 60,000     | Awareness leaflets for organic cultivation practices and pest management |
| 5  | Waste removal from site                                                              | 40,000     | Waste from vegetation clearing, site preparation, labour camps           |
| 6  | Training of Farmers and Village level stakeholders on new technological applications | 200,000    | Should be scheduled to a few sessions                                    |

**CONCLUSION AND SCREENING DECISION**

**Summary of environmental effects:**

Assuming that all mitigation measures are implemented as proposed, the following effects can be predicted

| Key project activities              | Potential Environmental Effects                                                                                                               | Significance of environmental effect with mitigation in place <sup>1</sup> |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Material transportation and storage | Emission of dust, generation of noise and disturbance to community including farmers, and households                                          | NS                                                                         |
| Vegetation clearing                 | Clearing of vegetation will collect significant amount of waste which will lead to several environmental issues such as blockage of drainage, | NS                                                                         |

<sup>1</sup> NS - Effect not significant, or can be rendered insignificant with mitigation, SP - Significant positive effect, SN - Significant negative effect, U - Outcome unknown or cannot be predicted, even with mitigation

| Key project activities   | Potential Environmental Effects                                                                                   | Significance of environmental effect with mitigation in place <sup>1</sup> |
|--------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|                          | siltation of downstream, damage to habitats, spreading of invasive species etc.                                   |                                                                            |
| Construction of building | Emission of dust, generation of noise and disturbance to community including farmers, and households              | NS                                                                         |
| Processing activities    | Solid waste generation from crop related value addition and machinery parts will lead minor environmental issues. | NS                                                                         |

### EMP IMPLEMENTATION RESPONSIBILITIES AND COSTS

The overall responsibility of ensuring compliance with safeguard requirements lie with PMU while the contractor will be responsible for implementing the provisions of the EMP. In addition, the PMU will be directly responsible for reviewing the proposed design to ensure that all design related mitigation measures mentioned herein are implemented with the support and supervision of the PMU. The overall supervision will be carried out by the in-house staff of the PMU supported by the Provincial Deputy Project Director who is responsible for the overall supervision of the proposed project. Any consequent design modification will be reflected in the project cost.

Environmental monitoring will be carried out largely through visual observations and compliance monitoring using the checklist provided in the EMF by the Provincial project engineer of the PMU and the contractor jointly. The Environmental and Social Safeguards Specialist will need to visit the site on a monthly or quarterly and report on issues and performance on EMP implementation to the PMU.

### SCREENING DECISION RECOMMENDATION

This project does not require environmental clearance under national environmental regulations. No other approval is required due to the spread and magnitude of the project. These potential impacts are temporary in nature. It is recommended to start the project work off-season for upland cultivation and avoid night-time work. However, it should be noted that EPL is not required for the processing centre as per the CEA direction since processing centre does not have grinding operation. This processing centre is more likely a collection centre. Implementation of the Environmental Management Plan is sufficient to mitigate the identified impacts.

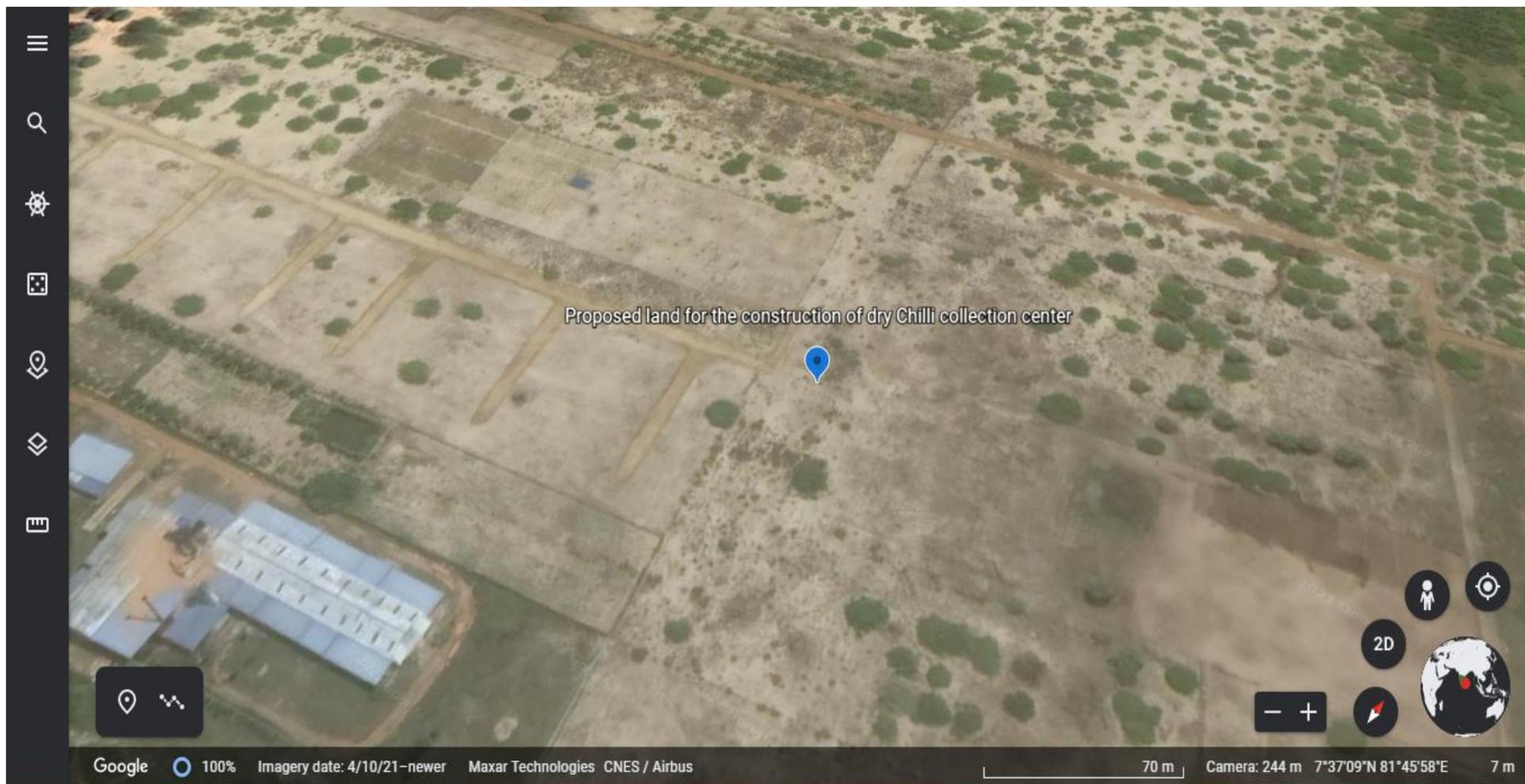
### DETAILS OF PERSONS RESPONSIBLE FOR THE ENVIRONMENTAL SCREENING

|                                                                                                                                                                                                                                                      |                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Screening conducted and reviewed by</b></p> <p><b>D.M. Sanjaya Bandara</b><br/> <b>Environment and Social Safeguard Specialist</b><br/> <b>Agriculture Sector Modernization Project</b></p> <p><b>Name/Designation/Contact information</b></p> | <p><b>Date</b><br/> <b>December 2021</b></p>  <p><b>Signature</b></p> |
| <p><b>Screening report recommended by</b></p> <p><b>Dr. Rohan Wijekoon</b><br/> <b>Project Director</b><br/> <b>Agriculture Sector Modernization Project</b></p> <p><b>Name/Designation/Contact information</b></p>                                  | <p><b>Date</b><br/> <b>December 2021</b></p>  <p><b>Signature</b></p> |

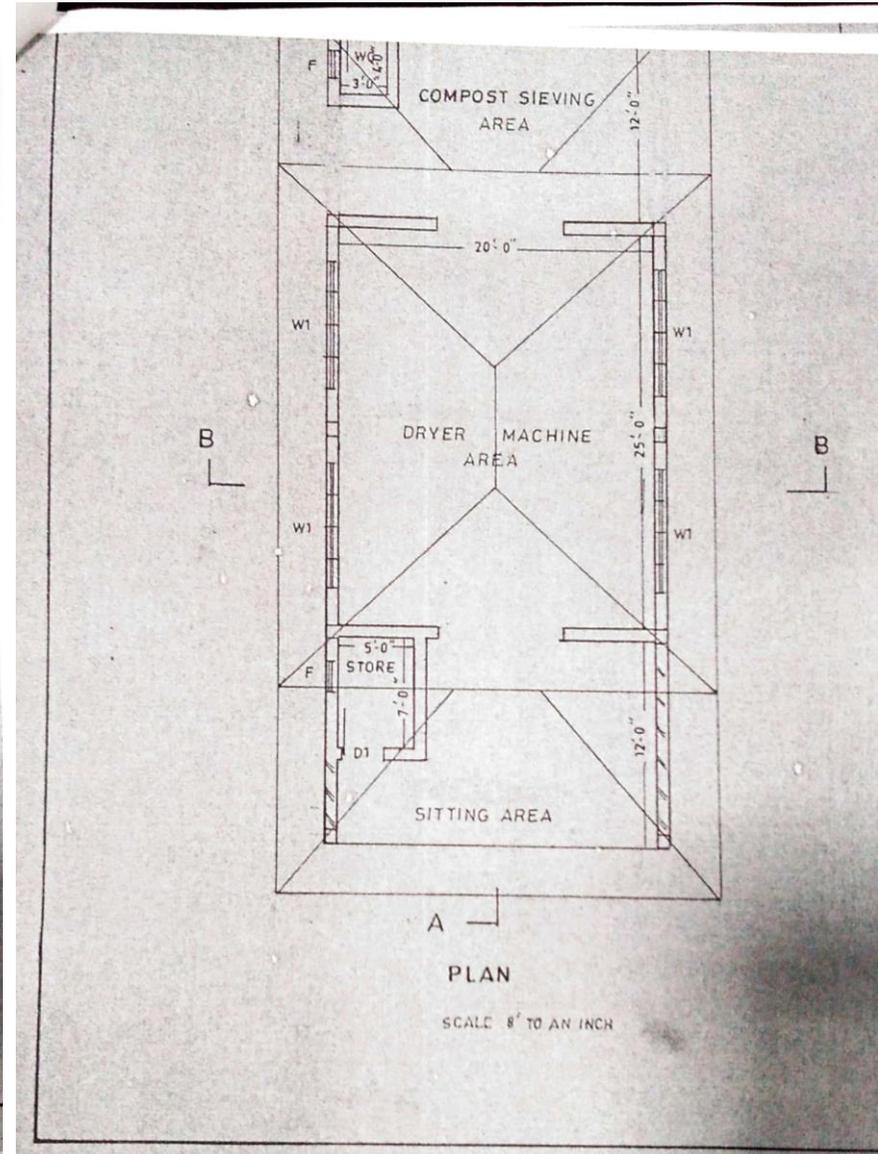
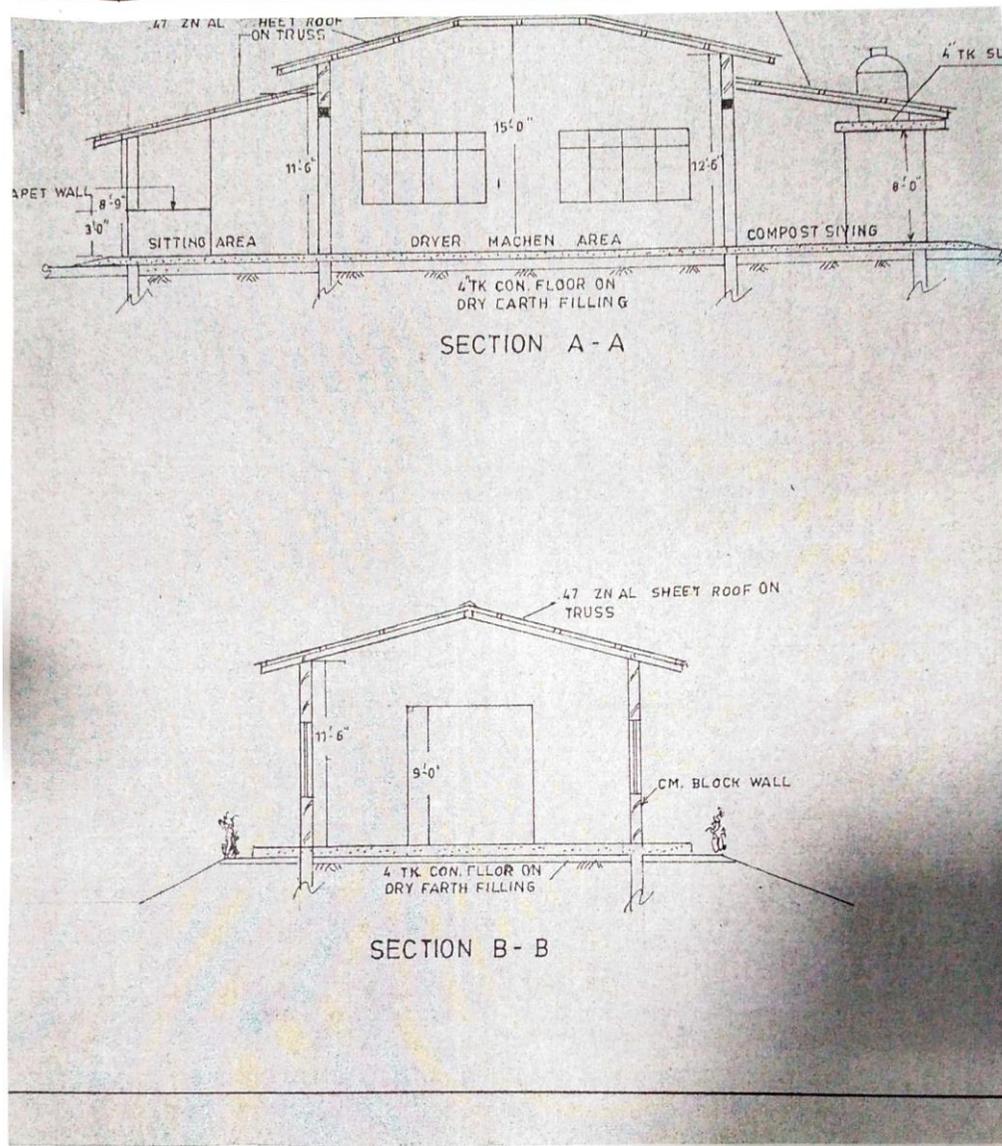
**Annexure 1: List of References**

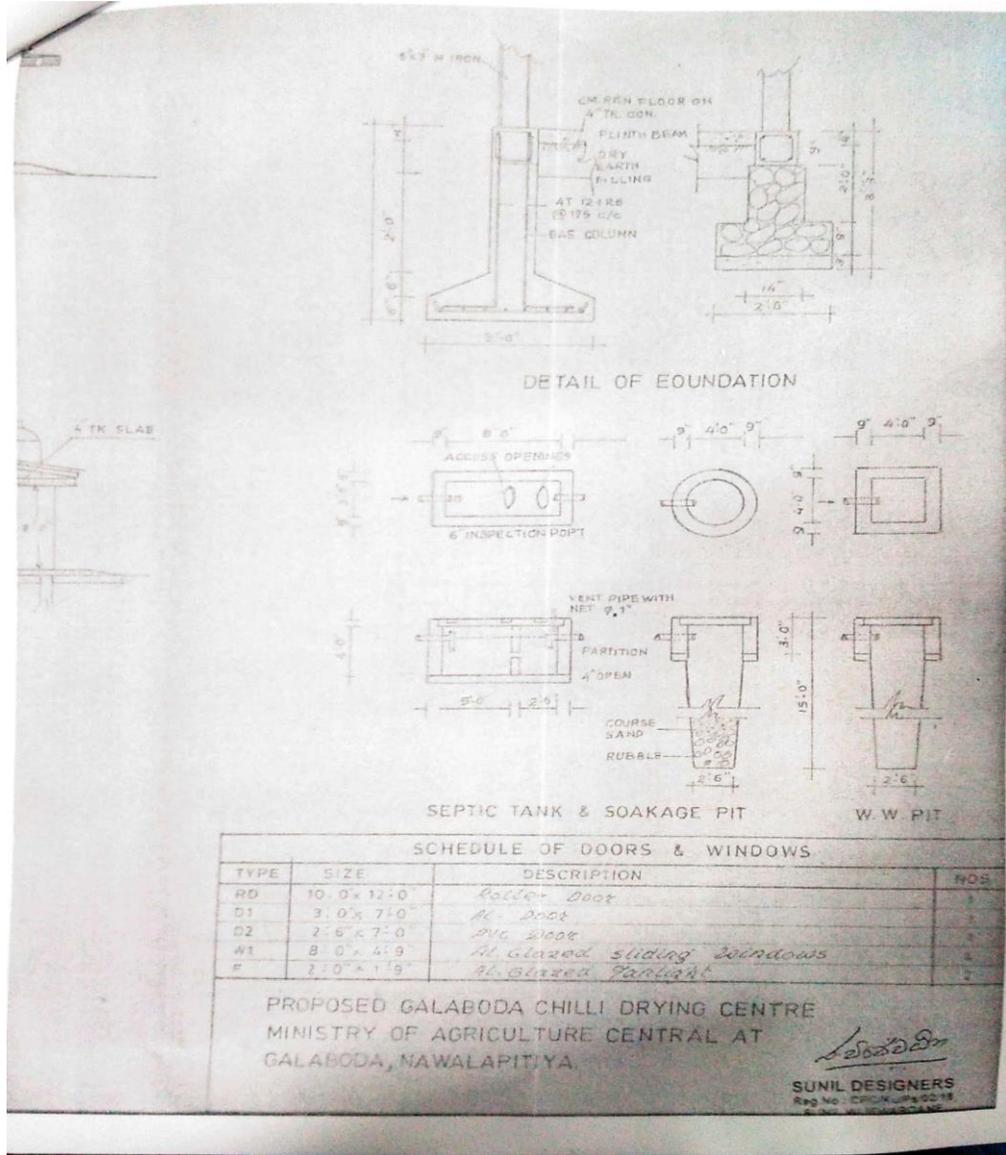
- 1) [https://luppd.gov.lk/images/content\\_image/downloads/pdf/llrc\\_batticaloa.pdf](https://luppd.gov.lk/images/content_image/downloads/pdf/llrc_batticaloa.pdf)

**Annexure 2: Project location maps**



**Annex 3: Designs of the Collection Centre**





| SCHEDULE OF DOORS & WINDOWS |             |                           |     |
|-----------------------------|-------------|---------------------------|-----|
| TYPE                        | SIZE        | DESCRIPTION               | NOS |
| D1                          | 3.0' x 7.6" | Wooden Door               | 1   |
| D2                          | 2.0' x 7.0" | PVC Door                  | 1   |
| W1                          | 8.0' x 4.9" | Al-glazed sliding windows | 4   |
| F                           | 2.0' x 1.9" | Al-glazed Fanlight        | 2   |

PROPOSED GALABODA CHILLI DRYING CENTRE  
MINISTRY OF AGRICULTURE CENTRAL AT  
GALABODA,  
NAWALPITIYA,

Drawn by

SUNIL DESIGNERS  
Reg No: CPC/Kw/Ps/02/18  
SUNIL WJUEWARDANE  
Off.: 5/1, Digana Rd, Henwala,  
Kundasale  
Res.: Polwatta, Kundasale  
Tel.: 0717426841/ 077-3426841  
12-10-2021

**Annex 4: Beneficiaries list**

| S.N | Beneficiaries Name              | Address                                       | NIC No       | Contact No | G.N Division |
|-----|---------------------------------|-----------------------------------------------|--------------|------------|--------------|
| 01  | Nagalinkam yogarasa             | Kirankulam – 06- North                        | 71269.3584V  | 0774164558 |              |
| 02  | Vairamuthu Sasikumar            | Beach Rd, Kirankulam-North                    | 751582862V   | 0775918202 |              |
| 03  | Ponnampalam Thevarajah          | Aalaiyadi Rd, Kiranulam - Central             | 196704603591 | 0758550065 |              |
| 04  | Amarasinkam Varnakulasingam     | Visnukovil Rd, Kirankulam - Central           | 711610286V   | 0779060683 |              |
| 05  | Ravindran Sasikaran             | Visnukovil Rd, Kirankulam - North             | 832604593V   | 0758251033 |              |
| 06  | Poopalapillai Sivanantharasa    | Main Rd, Kirankulam - South                   | 62694180V    | 0754258767 |              |
| 07  | Selvarethinam Thavaroopan       | Music college Rd,Navatudah( kirankulam North) | 791412269V   | 0769498545 |              |
| 08  | Sivalinkam Nirmalathevi         | Beach Rd,Kirankulam - Central                 | 608463496V   | 0767029111 |              |
| 09  | Kanakasabapathi Thanapalasingam | Kanthaiyah Rd, Kirankulam                     | 850151377V   | 0752006580 |              |
| 10  | Samithampy Mahathevi            | Palaiya thapalaka Rd,Kirankulam – central     | 635122838V   | 0778685668 |              |
| 11  | Selvanayagam Nadesalinkam       | Panaiyadipalla Rd, Kirankulam -06             | 701880501V   | 0771019293 |              |
| 12  | Allimuthu Vijayan               | Sellathampy Rd,Kirankulam – North             | 750050069V   | 0757952209 |              |
| 13  | Sivanesathurai Sivarasa         | Main Rd,Kirankulam-06                         | 740281283V   | 0757598100 |              |
| 14  | Kirusalini Gowravan             | Nesavunilaiya Rd,Kirankulam                   | 907391108V   | 0752824808 |              |
| 15  | Samithampy Thavarasa            | Nesavunilaiya Rd,Kirankulam                   | 590144096V   | 0756000770 |              |
| 16  | Thampirasa Kanthalingam         | Tharmapuram,Kirankulam                        | 520084940V   | 0773941011 |              |

|    |                               |                                              |              |            |                       |
|----|-------------------------------|----------------------------------------------|--------------|------------|-----------------------|
| 17 | Ponnampalam Santhirasekaram   | Kirankulam – North                           | 710233373V   | 0758780557 | Kirankulam-North      |
| 18 | Konamalai Nanthakopal         | Sellathampy Rd, Kirankulam                   | 700072029V   | 0754082306 | Puthukudiyirppu-South |
| 19 | Samithampy Paramalinkam       | Cheddipalayam - South                        | 543173592V   | 0777308680 | Puthukudiyirppu-North |
| 20 | Manikkam Thayakaran           | 9 <sup>th</sup> kaddai Rd, Kirankulam -North | 692460812V   | 0755630275 | Puthukudiyirppu-South |
| 21 | Thavarajah Rakasuthan         | Beach Rd ,Kaluthavalai - 04                  | 921253303V   | 0752922590 | Puthukudiyirppu-South |
| 22 | Kanthappodi Sathiyananthan    |                                              | 681132694V   | 0763136604 | Puthukudiyirppu-North |
| 23 | Sithamparapillai Vijayenthiny | Kanthakuddy Rd, Kirankulam-South             | 706320156V   | 0752879873 | Puthukudiyirppu-South |
| 24 | Mahendran Seethevipillai      | 9 <sup>th</sup> kaddai ,Kirankulam – North   | 677852666V   | 0750752212 | Puthukudiyirppu-South |
| 25 | Selvarasa Ramesh              | Mariyamman Rd, Kirankulam                    | 197921303657 | 0755133243 | Puthukudiyirppu-South |
| 26 | Somasuntharam Jeyasuntharam   | Kumaran kalamanra Rd, Kaluwanchikudy         | 751250754V   | 0757007106 | Puthukudiyirppu-South |
| 27 | Kanthappan Susanthan          | Main Rd, Kaluthavalai-01                     | 872851771V   | 0757021292 | Puthukudiyirppu-South |
| 28 | Kaneshan Thevathanan          | Sellathampy Rd, Kirankulam North             | 821121809V   | 0752456592 | Puthukudiyirppu-South |
| 29 | Arunasalam Kunarednam         |                                              | 710015155V   | 0773132763 | Puthukudiyirppu-South |
| 30 | Parasuraman Thanuraj          | Visnukovil Rd, Kirankulam-06                 | 911583321V   | 0756207842 | Puthukudiyirppu-South |
| 31 | Senathipathi Arudsevam        | Amalapuram                                   | 760753947V   | 0779684018 | Puthukudiyirppu-South |
|    |                               |                                              |              |            |                       |
|    |                               |                                              |              |            |                       |

### Details of Dry Chilli Production Program-Beneficiaries

| S.N | Beneficiaries Name              | Address                  | NIC No       | Contact No  | G.N Division |
|-----|---------------------------------|--------------------------|--------------|-------------|--------------|
| 01  | Kirupairethinam<br>Mayuran      | Cemete Rd,<br>Mankadu    | 793180535V   | 0754745580  |              |
| 02  | Mahalinkam Srikanth             | Visnukovil<br>Rd,Mankadu | 831812559V   | 0770409991  |              |
| 03  | Selvanayagam<br>Kopalasingam    | Beach Rd,<br>Mankadu     | 197320102281 | 0706489848  |              |
| 04  | Manikkam Rasenthiram            | Beach Rd,<br>Mankadu     | 19823442190  | 0757175286  |              |
| 05  | Mayilvahanam<br>Navarethinarasa | Visnukovil<br>Rd,Mankadu | 820033868V   | 0785757654  |              |
| 06  | Kanthappodi Komathi             | Beach Rd,<br>Mankadu     | 775714859V   | 0779571578  |              |
| 07  | Velmurugu Nesamalar             | Beach Rd,<br>Mankadu     | 19756580833  | 0766363734  |              |
| 08  | Mahesan Pirapaharan             | Beach Rd,<br>Mankadu     | 852694998V   | 0764211677  |              |
| 09  | Kunasekaram<br>Thayaparan       | Ellai<br>Rd,Mankadu      | 198332900649 | 0754713999V |              |
| 10  | Kumarasamy<br>Nagalinkam        | Visnukovil<br>Rd,Mankadu | 740954172V   | 0784689026  |              |
| 11  | Kanthaperumal<br>Kalavathi      | Perumal<br>Rd,Mankadu    | 685911124V   | 0771360934  |              |
| 12  | Mayilvahanam<br>Pathmarasa      | Visnukovil<br>Rd,Mankadu | 721704025V   | 0770439778  |              |
| 13  | Rasenthiram Puvi                | Beach<br>Rd,Mankadu      | 882091830V   | 0757283230  |              |
|     |                                 |                          |              |             |              |

| S.N | Beneficiaries Name        | Address                                      | NIC No     | Contact No | G.N Division |
|-----|---------------------------|----------------------------------------------|------------|------------|--------------|
| 01  | Selvarasa ledsumi         | Murugan kovil west Rd, cheddipalayam - South | 525892255V | 0755156676 |              |
| 02  | Kuhenthirarajah Pirunthan | Murugan kovil west Rd ,cheddipalayam - South | 922231770V | 0752387433 |              |
| 03  | Thampipillai Thayakaran   | Midwife Rd, Cheddipalayam- South             | 713003492V | 0752900459 |              |
| 04  | Pillaiyan Suntharalinkam  | Midwife Rd, Cheddipalayam- South             | 731573956V | 0770836641 |              |
| 05  | Kanapathipillai Selvarasa | Murugan kovil East Rd, cheddipalayam -South  | 593423344V | 0752656795 |              |
| 06  | Pillaiyan Visvalinkam     | Murugan kovil Rd, cheddipalayam - South      | 590362573V | 0756847313 |              |
| 07  | Sivaganam                 | Midwife Rd, Cheddipalayam- South             | 601465167V | 0757234313 |              |
| 08  | Yoganathan Sumitha        | Cheddipalayam - North                        | 850164932V | 0754294919 |              |
| 09  | Thavarasa Kamalesh        | Cheddipalayam - South                        | 785512278V | 0776733547 |              |
| 10  | Karunakaran Kokilaranjan  | Cheddipalayam - North                        | 880211153V | 0759826841 |              |
| 11  | Thampirasa Elango         | Cheddipalayam - North                        | 810161213V | 0771037927 |              |
| 12  | Thiyagarasa Thevasuthan   | Cheddipalayam - South                        | 801691293V | 0756746910 |              |
| 13  | Palasuntharam Kugan       | Cheddipalayam- South                         | 683041386V | 0758250781 |              |
| 14  | Kumarasamy Kopalasingam   | Murukan Kovil Rd,cheddipalayam -North        | 721024466V | 0752487993 |              |
| 15  | Venuthas Kiruthika        | Public ground Rd                             | 937702418V | 0756678941 |              |
| 16  | Sivalinkam Ravindran      | Midwife Rd, Cheddipalayam- South             | 690913682V | 0759530942 |              |

|    |                             |                                              |            |            |  |
|----|-----------------------------|----------------------------------------------|------------|------------|--|
| 17 | Nadarajan Vivekanantharajah | Kaddupillaiyar Kovil Rd,Cheddipalayam -South | 830592938V | 0753024592 |  |
| 18 | Rakupathi Kandeepan         | Main Rd, Cheddipalayam - South               | 781891703V | 0758761252 |  |
| 19 | Sivalinkam Pathmavathy      | Murugan Kovil Rd,Cheddipalayam- South        | 735910710V | 0752081712 |  |

| S.N | Beneficiaries Name              | Address                                | NIC No     | Contact no |  |
|-----|---------------------------------|----------------------------------------|------------|------------|--|
| 01  | Kanapathipillai Thillaiyampalam | Somasuntharam Rd,Kaluthavalai-04       | 602222861V | 077535952  |  |
| 02  | Elayathampi Rathinasingam       | Vanniyar Rd west,Kaluthavalai -Central | 582482497V | 0754265512 |  |
| 03  | Alakuthurai Pirunthapan         | Pirathesasabai Rd,Kaluthavalai-05      | 972000078V | 0752829838 |  |
| 04  | Thevarasa Kalaiselvi            | Vanniyar Rd west,Kaluthavalai -Central | 790062990V | 0752607088 |  |
| 05  | Ponnuthurai Suntharalinkam      | Vipulanantha Rd,Kaluthavalai-Central   | 593213749V | 0758251853 |  |
| 06  | Kumrasamy Sothinathapillai      | Beach Rd,Kaluthavalai-04               | 672543673V | 0770832236 |  |
| 07  | Kanthaiyah Perinpanayagam       | Church Rd,Kaluthavai -03               | 603373185V | 0757006818 |  |
| 08  | Velupillai Murugesu             | Somar Rd,Kaluthavalai-03               | 641722731V | 0758106366 |  |
| 09  | Velmurugu Yoganathan            | Beach Rd.,Kaluthavalai-03              | 743201930V | 0754644677 |  |
| 10  | Samithampy Nesarasa             | Main Rd,Kaluthavalai-02                | 573274202V | 0778436546 |  |
| 11  | Sothilinkam Kunasunthari        | Main Rd,Kaluthavalai-04                | 587242710V | 0779766393 |  |
| 12  | Sinnathampi Amirthalinkam       | Kaanady Rd,Kaluthavalai-01             | 692434030V | 0771308504 |  |
| 13  | Rasaiyah Veerasingam            | Vasakasalai Rd,Kaluthavalai -04        | 620733768V | 0768805564 |  |
|     |                                 |                                        |            |            |  |

| S.N | Beneficiaries Name     | Address                                    | NIC No     | Contact No | G.N Division          |
|-----|------------------------|--------------------------------------------|------------|------------|-----------------------|
| 01  | Yoganantharasa Megala  | Sri murugan kovil Rd,Kurukkal madam, North | 637051792V | 0755623621 | Kurukkal madam, North |
| 02  | Sabarethenam Thangamma | Kurukkal madam, North                      | 675523584V | 0758552120 | Kurukkal madam, North |
| 03  | Theyagarasa Vanaja     | Kurukkal madam, North                      | 736973367V | 0755319822 | Kurukkal madam, North |
| 04  | Thavarasa Deluxan      | Kurukkal madam, North                      | 931003054V | 0776919576 | Kurukkal madam, North |

Annex 5: Consent letter from DS

**பிரதேச செயலகம், மண்முனைப்பற்று**  
**දාදේශීය ලේකම් කාර්යාලය, මන්මුනේපත්ත**  
**Divisional Secretariat, ManmunaiPattu**

මගේ අංකය }  
எனது இல } LAN/ VE.LRC/ 2013/07  
My No }  
මගේ අංකය }  
உமது இல } Your No  
දිනය }  
திகதி } 22.11.2021  
Date }

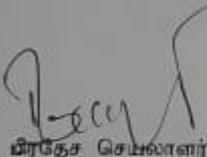
**Agriculture Sector  
Modernization Project**  
25 NOV 2021  
PPMU  
Eastern Province

உதவிப் பணிப்பாளர்  
காணி சீர்திருத்த ஆணைக்குழு  
கச்சேரி  
மட்டக்களப்பு

செத்தல் மினகாய் பதப்படுத்தும் நிலையம் அமைப்பதற்கான காணித்துண்டு தொடர்பாக

மேற்படி விடயம் தொடர்பாக கமத்தொழில் அமைச்சின் ASMP/PPMU/Dry chilli/2021 ஆம் இலக்க  
14.10.2021 ஆம் திகதிய கடிதம் சார்பாக,

எமது செயலக பிரிவுக்குட்பட்ட பிரதேசத்தில் மினகாய்ச் செய்கை சிறந்த முறையி  
நடைபெறுகின்றது. எனவே இங்கு செத்தல் மினகாய் பதப்படுத்தும் நிலையம் அமைப்பதற்கான  
தேவை உணரப்படுவதனால் புதுக்குடியிருப்பு பகுதியில் பொருத்தமான காணித்துண்டு ஒன்றினை  
குறித்த தேவைக்கு வழங்குவதற்கு சிபாரிசு செய்கின்றேன்.

  
பிரதேச செயலாளர்  
பிரதேச செயலகம்  
மண்முனைப்பற்று

**Mrs. N. Sathyananthi**  
Divisional Secretary  
Divisional Secretariat,  
ManmunaiPattu, Arayampathy.

பிரதிகள்: 1. மாவட்ட செயலாளர், மாவட்ட செயலகம், மட்டக்களப்பு  
2. மாகாண பிரதித் திட்டப் பணிப்பாளர், விவசாயப்பிரிவு நவீனமயமாக்கல் திட்டம்  
3. பிரதி விவசாயப் பணிப்பாளர், மட்டக்களப்பு

*PE*  
*For your information and*  
*further action pls*  
*[Signature]*  
*25/11/2021*

Divisional Secretary: 065-2245212  
Deputy Director of Planning: 065-2247104  
Administrative Officer (GN) – 065-2246875  
Assistant Divisional Secretary: 065-2248899  
Administrative Officer: 065-2248131  
Email: [motha.davi.manmunaiPattu@gmail.com](mailto:motha.davi.manmunaiPattu@gmail.com)  
Accountant: 065-2246527  
Fax: 065-2246606



කෘෂිකර්ම අමාත්‍යාංශය  
கமத்தொழில் அமைச்சு  
Ministry of Agriculture



AGRICULTURE SECTOR MODERNIZATION PROJECT

PROVINCIAL PROJECT MANAGEMENT UNIT – EASTERN PROVINCE

Agriculture Department Quarters Lane, Kallady, Batticaloa.

අ.ප.අ. අංකය  
எனது இலக்கம்  
My No

ASMP/PPMU/EP /Dry\_Chilli/2021

osksh  
திகதி  
Date

14.10.2021

Director,  
Land Reform Authority,  
Kachcheri,  
Batticaloa

**Sub: Request for a plot of Land for Dry Chilli Processing Center.**

I wish to write to inform you that, we are implementing Agriculture Sector Modernization Project under the Ministry of Agriculture, funded by GOSL and the World Bank. In this context, we are implementing various crop production in selected locations in Batticaloa District under the Modernization Technology to enhance the quality of products through modernized value addition technology.

Dry Chilli production also one of the components, which will be implemented in Puthukudiruppu, Kirankulam, Chettipalayam, Mankadu, Thettative and kuluthavalai areas in Manmunai Pattu and Manmunai South & Eruvil pattu D/S Divisions.

Therefore, we need a suitable plot of Land of extent 80 perches to put up a Dry Chilli processing center close to Kirankulam area, which will be almost a centre for the above mentioned villages, to enable the farmers to bring down their Chilli products to the Processing centre for the Dry Chilli production and Value addition.

Therefore, I shall be thankful to you, if you could allocate us 80 perches of State land at your earliest. This plot of land may be vested to Department of Agriculture. Your kind Co - operation in this regard would be very much appreciated please.

o/c

R.Gnanachelvam  
Acting Provincial Deputy Project Director  
Agriculture Sector Modernization Project  
Eastern Province.

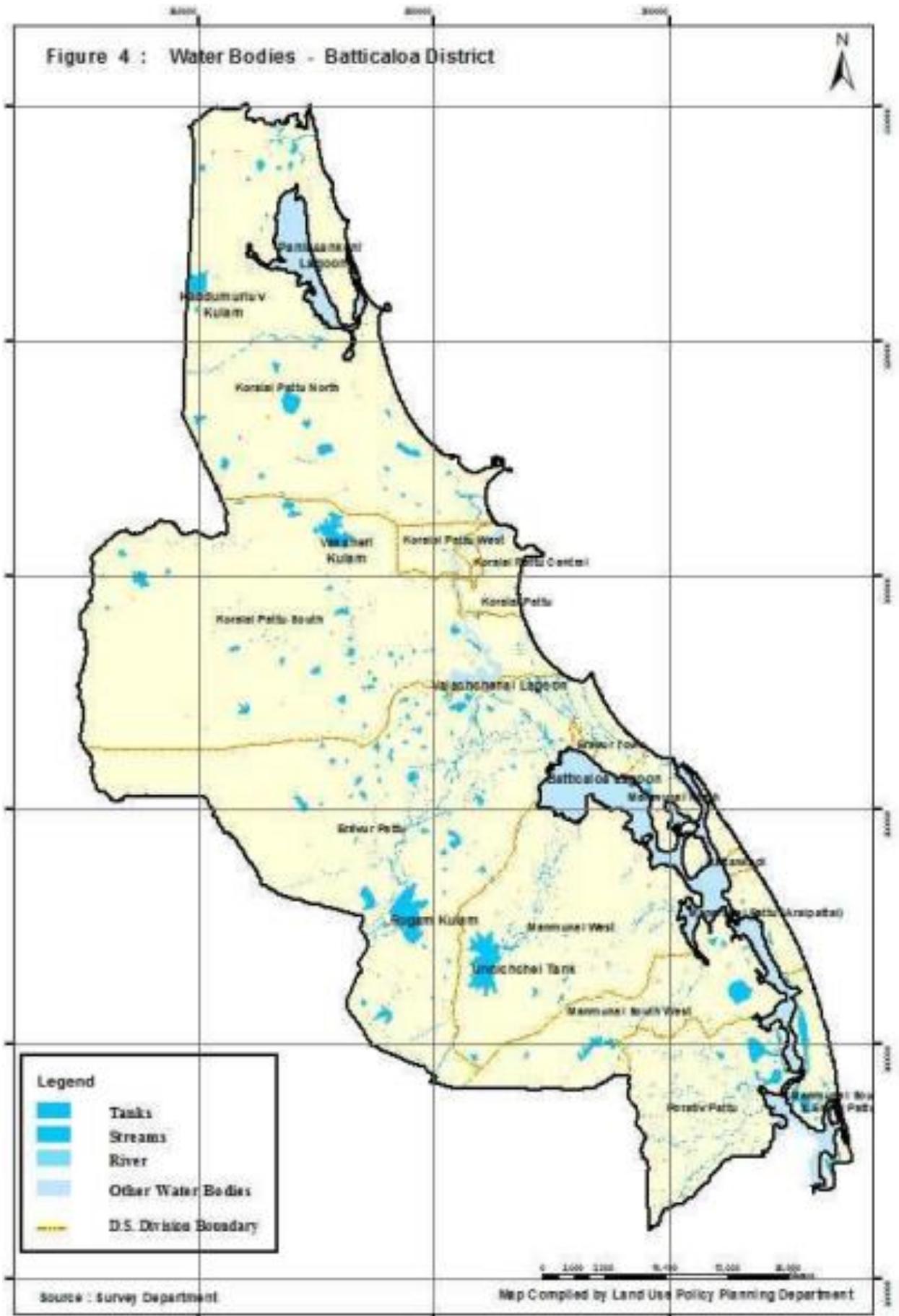
R.GNANACHELVAM  
Acting Provincial Deputy Project Director  
Agriculture Sector Modernization Project  
Eastern Province  
Batticaloa.

- Copies to :
- 1. Deputy Director of Agriculture, Batticaloa Fi.PI
  - 2. Divisional Secretary, Manmunai Pattu, Arayampathy Fi.PI

Fax - 065-2059190

E-mail - gchelvam@yahoo.com

**Annex 6: Distribution of water bodies in Batticaloa district**



**Annex 7: Protected areas of Batticaloa district**

