Climate Smart Irrigated Agriculture Project (CSIAP)

IDA Financed project

of the

Ministry of Mahawali, Agriculture, Irrigation andRural Development

Environmental Screening Report

of

Modernization & Digitalization of Mulliyawali Agrarien Services Center in Mullaitivu District Northern Province

December 2019

Abbreviations

ADO	Agrarian Development Officer
AI	Agricultural instructor
ASC	Agrarian Service Center
CEA	Central Environmental Authority
CSIAP	Climate Smart Irrigated Agriculture Project
DAD	Department Of Agrarien Development
DO	Development Officer
DPD	Deputy Provincial Director
FO	Farmer Organization
GN	Grama Nilathari
MA	Management Assistant
OA	Office Assistant
PRA	Participatory Rural Appraisal
PVC	Poly Vinyl Chloride
WB	World Bank

Contents

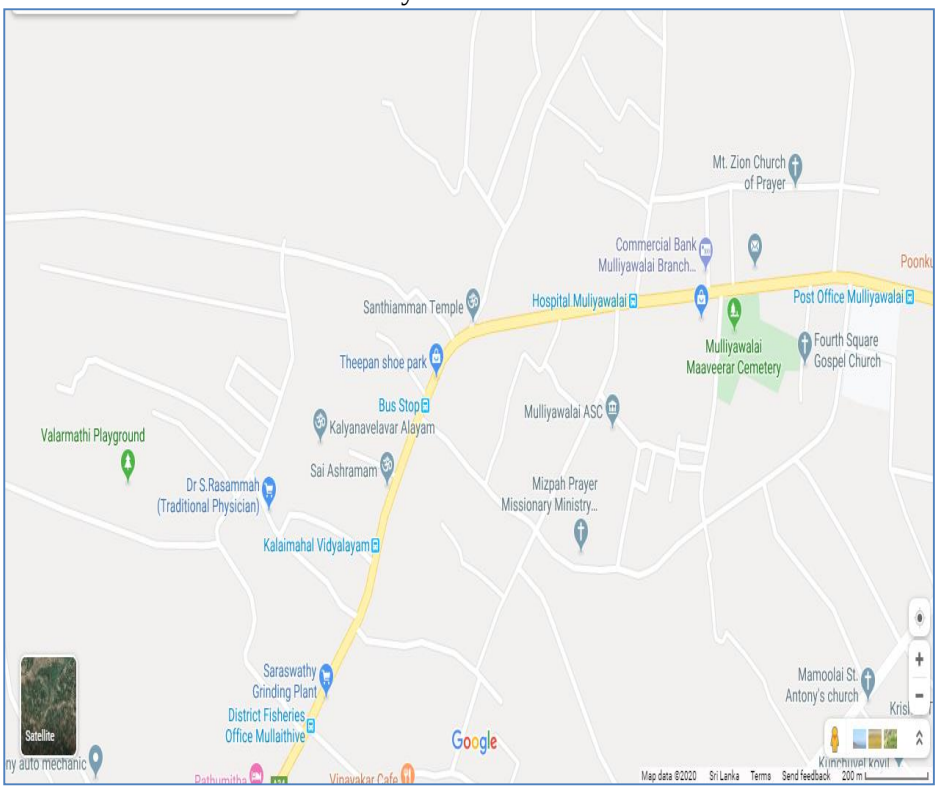
Environmental Screening Report for ASC Modernization

1. Project Identification

Project title	Modernization & digitalization of of Mulliyawalai Agrarian Service Centre (Civil works)
Project Proponent	Department of Agrarian Development, Mullaitivu

2. Project Location

Location (*relative to the nearest town, highway*)	Province - Northern District - Mullaitivu DS Division - Martiampattu Cascade - Peraru Hotspot area - Peraru Riverbasin Agrarian service centre – Mulliyawalai ASC Local government ward – Mulliyawalai GN Division – Mulliyawalai east MU108



Source : Google Map

Definition of Project Area *(The geographical extent of the project & areas affected during construction)*	The Project area is approx 75 m away from the main road . In its immediate surrounding is the residential area with a hosing schemes, Pre school & Kovila. The predominant land use type of the project area is agriculture. The project site is the exisiting ASC of Muliyawalai.The propose project site is located in 0.6128 ha land area .The land ownership is with the Agrarein services department.Therefore the site is a government owned land.

3. Project Justification

Need for the project (*What problem is the project going to solve*)	Muliyawalai Agrarien Services Centre (ASC) is constructed in the 1975.It was destroyed due to the War in the 2008/2009.It was rehabilitated and reopened in the year 2010 .This was after 9 years from the last rehabilitation of the ASC centre. At present there are 10 rooms in the ASC. One is used to store fertilizer, and other 9 rooms are used by the officers. Agriculture Development Officer (ADO) is the incharge of the ASC centre. There are o5 officers namely AI, CDO, DO, MA and OA working at the ASC. These offiers are providing services to the farmers with available limited facilities. Therefore below metined improvements were needed to provide better services to the community. **1. New fertilizer room** **2. Training center** **3. Wash room** **01. Need of new fertilizer room** One of the main service of the ASC is fertilizer distribution to farmers. Therefore fertilizer storage facility improvement is very important .Therefor construction of new building with higher capacity for fertilizer store is needed. **02. Need of Training center** ASC need to provide information for farmer therfor farmer training is also very important service . construction of a training centre will be very usefull for the ASC . Therefore proposed to build a new training centre building. **03.Need of Wash room** The sanitary facility is not in a good condition. There is only one toilet and it is not suitable to provide sanitary facilities for many people using ASC including ASC Staff . (More than 50 people use the toilet during working day). Therefore, need to construct another toilet.
Purpose of the project (*what is going to be achieved by carrying out the project*)	Purpose of modernization of the Mulliyawalai Agrarien Services Centre (ASC) is to provide efficient and effective services centre for the farming community. Therefore proposed improvemnets will be able to make the ASC more service oriented centre for the frmers with better facilities.

Alternatives considered (*different ways to meet the project need and achieve the project purpose*)	This is an existing ASC that serves the Mulliyawalai areas in the Mullaitivu District.The project aims to add improvements to the existing structure in order to gain operational efficiency and effectiveness. Hence,Alternatives to the project are not realy relevant.

4. Project Description

Proposed start date	Bid documents are ready by 04th November expect to start in January 2020
Proposed completion date	Bid documents are ready by the 04th of November 2019. Propose drehabilitation is expected to start in the January 2020.and expect to complte the construction by the mid of 2020 according to the Sub project proposal. Time frame is given (Annexure - I)
Estimated total cost	LKR 10,000,000.00
Present land ownership	State land under the control as Commissioner of Department of Agrarien Development
Description of the project (*with supporting material such as maps, drawings etc attached as required*)	Climate Smart Irrigated Agriculture Project (CSIAP) is financed by world bank, and the project is implemented in 11 districts including Mullaitivu by the Ministry of Agriculture aiming to improve the productivity and climate resilience of small holder farming in hotspot area. In the Northern province under the proposed ASC sub project proposal. is planned to implement ASC modernization interventions in the Mullaitivu District covering the Pereru river basin. From this project Martiampattu, Oddusuddan, Puthukudiyiruppu and Thunukkai divisional secretarist divisions will be benefited. Four ASC that are selected are namely Oddusuddan, Thunukkai, Muliyawalai and Puthukudiyiruppu. Muliyawalai ASC is expected to be modernized as a one stop service center through expansion and refurbishment of existing building to the cost of 10 milion under the CSIAP for the purpose of providing optimum service to the farming community and conducive working environment to the staff who are working from ASC and other various departments.

<table>
<tr><td></td><td>The proposed development consist of estimates for the construction of below mention items .
1. Building a new Training Center
2. Construction of wash room
3. Building new fertilizer Room

Summary of the estimates of proposed construction
<table>
<tr><td>Item No.</td><td>Description</td><td>Ammount (Rs)</td></tr>
<tr><td>01.</td><td>Construction of Training Center</td><td>1,885,678.46</td></tr>
<tr><td>02</td><td>Construction of Wash room</td><td>1,517,172.92</td></tr>
<tr><td>03.</td><td>Construction of Fertilizer Store</td><td>3,874,347.86</td></tr>
</table>

Refer Annexure – II Sketch maps of the building .</td></tr>
<tr><td>Project Management Team</td><td>DPD of Northern Province
Mr.Jeganathan
Contact No – 0770327752
E-mail – jeyajeha@gmail.com</td></tr>
</table>

5. Description of the existing environment

5.1 Physical features – Ecosystem components	
Topography and terrain	The Topography of Mullaitivu district is flat land. But the Western side of the land is gently sloping to aside . This district has 70 Km of coastal belt . There are four laggon namely kokkulai, Nayaru, Nanthikada land Mathalan with high potentials for prawn culture.The elevation within the district varies from sea level to 36.5 meters.
Soil (*type and quality*)	Reddish brown earth soil is dominant in the project area.
Surface water (*sources, distance from the site, local uses and quality*)	The Project area is approx 5.5 km away from the Coastal area (Nanthikadal) & 7.5 km away from the Perunkadal. Quality of water is brackish. Water is with a high salinity levels .
Ground water (*sources, distance from the site, local uses and quality*)	Ground water from Dug wells & tube wells are used for drinking purpose.The depth of the Dug wells are approximately 60 - 65 ft & tube wells are about 100 ft. The aquifer type of Muliyawalai is deep confined aquifer . Quality: Pure water is with a low salinity levels.
Flooding	Flooding is not reported in the area . There are no records of flood damage to the ASC area.

	Therfore no precausions need to be taken for flood prevention.
Air quality (*any pollution issues*)	Mukiyawalai is largely a rural area,hence air pollution is not an issue. No majar air pollution sources within 100m radius of the project site are recorded other than the highway closeby.
5.2 Ecological features – Eco-system components	
Vegetation (*trees, ground cover, aquatic vegetation*)	The land area of Muliyawalai within the ASC consists of some trees and home garden crops. Those are Cocos nucifera (Coconut tree), Borassus (Palmyra palm) & Ricinus communis (Castor been plant).
Presence of wetlands	None
Fish and wildlife habitats	None
Birds (*waterfowl, migratory birds, others*)	Common home garden birds resident in the area are found but the project site is a human modified area.Hence no major avifaunal diversity is observed.
Presence of special habitat areas (*special designations and identified sensitive zones*)	The area has not been identified as a special habitat area and according to CEA environment sensitive area map, the proposed site does not fall into any sensitive areas.
Other features	
Residential/Sensitive Areas (*Eg, Hospitals, Schools*)	There are few sensitive areas within the 100 m radius of the project site, They are as follows: • Pre School– approx 100 m • Kovil- approx 100 m Other Sensitive areas are identified more than 100m from the project site are as follows: Distance from ASC • Ayurveda Hospital – Approx 200 m away • School - Mu/Vidthiyanantha college – Approx 500m, Roman catholic primary school – Approx – 500 m, Kalai mahal Vidthiyalayam – Approx 750 m • Forest department – 250m • MOH office - 250m • Bank – Commercial Bank – Approx 500 m, BOC – Approx 900m

Traditional economic and cultural activities	Traditional economic and cultural activities withina100 m radius of the project site are not observed.
Archeological resources (*recorded or potential to exist)*	Archeological resources within 100 m radius of the project site are not recorded

6. Public Consultation

Public consulted	Consultation method	Date	Details/Issues raised
Mr. P.Sathiyamurthy	**Group Discussion (Group Discussion was conducted during the PRA)**	**11.11.2019**	**Farmer (President of farmer organization)** **Contact No – 0775712970** Farmers expect good service from the ASC and they have given their consent for the proposed work. Community expect for upgrade of the commun facilities in the ASC.
Mr.A.Ragavan	**Group Discussion (Group Discussion was conducted during the PRA)**	**11.11.2019**	**Farmer** **Contact No – 0774511146** **Community consented & supported** Community consented & Supported for the propose rehabilitation work.
Mr.S.Arunasalam	**Group Discussion (Group Discussion was conducted during the PRA)**	**11.11.2019**	**Farmer** **Contact No – 0779904552** Community consented & Supported for the propose rehabilitation work.
Mr.K.Arunakiri	**Group Discussion (Group Discussion was conducted during the PRA)**	**11.11.2019**	**Farmer** **Contact No – 0773678271** Community consented & Supported for the propose rehabilitation work.

7. Screening for Potential Environmental Impacts

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
Project Design					
1	Will the project cause the removal of large trees in the locality?	✓		Low	• There is a **Ricinus communis (Castor been plant)** in the project site. This tree need to be cut during the construction.  • Muliyawalai Agrarien development Officer informed no objection from Community regarding removal of this tree as there is no alternative place to construct the building. • The need of the tree removal has verbaly informed to the Grama Niladari of the area and the process of getting the permission from divisional secretariat relavent officer is in progress . • As per their permission,tree removal will be permitted. (ADO will follow this process)

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
					• Therefore from the construction activity 1 trees will be removed form the site.
2	Will the project use energy efficient, water efficient green building design principles in the design of the building	✓		Moderate	The building has proposed Asbestos free roofing materials . Zinc alluminium high tensile roofing sheets are estimaeted for the roofing instead of Asbestos .Als for the celingpine wood celing is proposed.
Project Construction					
3	Will construction and operation of the Project involve actions which will cause physical changes in the locality (topography, land use, changes in waterbodies, etc)		✓		No physical changes to the locality that will leads to modifications of water bodies.
4	Will construction of the project cause soil erosion within the site due to steep grade or soil content? What is the risk of landslides taking place in the area?	✓		Low	Due to the removal of trees, there is a chance for soil erosion.
5	Will the Project involve generation and disposal of solid wastes during construction? Are their wastes in the hazardous category?	✓		Moderate	**Expected solid waste during the construction** .and they are general waste such as ,Concrete waste, Metal waste (part of Nails), Polythen, Paper & Card board waste (packing material.), Electrical wiring waste,Plastic waste (Paint

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
					bucket ,Pvc items),Roofing material waste, Remaining Raw Materials (sand, stone, gravel, cement &etc)
6	Will the Project release pollutants or any hazardous, toxic or noxious substances to air?		✓		No any chemicals or any hazardous substance anticipated
7	Will the Project cause noise and vibration or release of light, heat energy or electromagnetic radiation?	✓		Low	During construction,noise and vibration impacts can be anticipated.Compaction,loading and unloading of materials are potential sources of noise and vibration during construction.
8	Will the Project lead to risks of contamination of land or water from releases of pollutants onto the ground or into surface waters, groundwater?		✓		This is a smple building rehabilitation project located in semi urban area. No observation of water ways nerby . No such pollution will occour .
9	Will the project cause localized flooding and poor drainage during construction Is the project area located in a flooding location?	✓		Low	During the construction,If the waste drainage system is not properly maintained,there is a chance for floodingand water stagnation.
10	Will there be any risks and vulnerabilities to public safety due to physical hazards during construction of the Project?	✓		Low	safety issues in terms of injuries due to construction work,using heavy machinery could beanticipated.However such incidences can be avoided with proper precautions exercised

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
					on health and safety aspects.
11	Are there any transport routes on or around the location which are susceptible to congestion or which cause environmental problems, which could be affected due to construction work?	✓		Low	Creation of dust and noise are the potential environmental impacts which are temporary in nature.
12	Are there any routes or facilities on or around the location which are used by the public for access to recreation or other facilities, which could be affected by the project?	✓		Low	There are few sensitive areas within the 100 m radius of the project site, They are as follows: • Pre School– approx 100 m • Kovil- approx 100 m
13	Are there any areas or features of high landscape or scenic value on or around the location which could be affected by construction activity?		✓		No any features of high landscape or scenic value within 100 m radius of the project site.
14	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 waterbodies, the coastal zone, mountains, forests which could be affected by the		✓		No any ecological sensitive areas within 100 m radius of the project site.

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
	project?				
15	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 any areas on or around the location used by protected,important or sensitive species offauna and flora are recorded
16	Will any part of the project's construction activities be located in a previously undeveloped area where there will be loss of greenfield land		✓		No any green field land on the project location .
17	Will the project cause any offsite impacts from example burrowing, quarrying, relocation of facilities etc?		✓		
18	Are there any areas or features of historic or cultural importance on or around the location which could be affected by the project?		✓		No any historic or cultural importance within 100 m radius of the project site.
19	Are their sanitary units planned?	✓		Moderate	Yes, two units planned .The wash rooms waste will be collected into a cesspit n the ASC premises.

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
	Operational Impacts				
20	Will the project lead to stagnant water and drainage problems causing increased mosquito breeding	✓		Low	During the construction, If the waste water is not properly discarded ,water stagnation will be possible. This area is very dry during 9 months of the year,h ence stagnat water will evaporate quickly therefore it will not cause any serious issue.
21	Will the project involve removal and disposal of wastes ?	✓		Low	During operations, cesspits will require desludging and the sludge will be removed to the sludge treatment Plant in Mullaitivu. Other municipal waste that are non-biodegradable will be moved to the Municipal waste site .

8. Permits and clearances needed for project to proceed

	Permit/Clearance	Yes	No	TBD	Remarks
1	National Environmental Act		✓		
2	Soil Conservation Act		✓		
3	Coast Conservation Act		✓		
4	Fauna and flora protection ordinance		✓		
5	Local Authority Act		✓		
6	Irrigation Ordinance		✓		
7	Any other		✓		

9. Conclusions

Conclusions		
Summary of key issues	**Low/High/Medium**	**Rating**
Air pollution including dust generation that can affect near by vegetation	Low	**N/S**
Noise pollution & vibration that can affect nearby structures	Low	**N/S**
Solid waste disposal	Low	**N/S**
Public /Occupational safety hazard	Low	**N/S**
Clearing/Closure of construction site/Labour camps	Low	**N/S**
N/S - 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		

10.Screening Decision Recommendation :

Majority of the potential adverse effects can be classified as general construction related impacts and can be mitigated on site with proper engineering interventions.These Potential impacts are temporary in nature.

Implementation of the environmental management plan is sufficient to mitigate the identified impacts.

11. Details of Persons Responsible for the Environmental Screening

Screening report completed by Kesiga.S Environmental Safeguard Officer- NP Email: *kesiga.sampasivam@gmail.com*	Date 31.01.2020 *Signature*
Screening report reviewed by M. Udula J. Sedera Environmental Officer –PMU Email: jeny.usedera@gmail.com	Date 20.02.2020 *Signature* M. U. J. Sedera Environmental Safeguard Officer Project Management Unit Climate Smart Irrigated Agriculture Project (CSIAP) Ministry of Agriculture
Screening report Recommended by Janaka Jayawardana Social & Environmental Specialist -PMU Email : jaya.ybj.@yahoo.com	Date 22.02.2020 *Signature* Dr. Y. B. J. N. Jayawardana Environmental & Social Safeguard Specialist Project Management Unit Climate Smart Irrigated Agriculture Project (CSIAP) Ministry of Agriculture
World bank Clearance given by Nadeera Rajapaksha Environmental Safeguard Specialist Email:nrajapakse@worldbank.org	Date 01.04.2020

Environmental Management Plan (EMP)

Title of Project:-Mulliyawalai ASC Modernization &Digitaization

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
01.	**Public complaints and lack of community support for the project implementation**	Information Disclosure among Stakeholders	1. Discussions should be conducted with the Residents in the area have to be briefed of the project, purpose and design and outcomes via a documented community consultation session - ***This should be done immediately once the contractor is mobilized.*** 2. The contractor should take note of all impacts, especially access issues and safety hazards that will be of concern to the residents and take necessary measures as stipulated in the EMP to mitigate them. 3. The contractor will maintain a log of any grievances/complains and actions taken to resolve them. 4. A copy of the EMP should be available at all times at the project supervision office on site.	Engineering Cost	Contractor	DAD Regional Engineerar& ProvinciDPD , (PDPD, Environmnetal Safeguard Officer (ESO)

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
02.	**Exposing and damaging of physical cultural resources**	Site preparatory work	Upon discovery of any physical cultural material during project implementation work, the following should be carried out; 1. Immediately stop construction activities. 2. With the approval of the resident engineer delineate the discovered site area. 3. 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. 4. Through the Resident Engineer, notify the responsible authorities, the Department of Archaeology and local authorities within 24 hours. 5. Submit a brief chance find report, within a specified time period, with date and time of discovery, location of discovery, description of finding, estimated weight and dimension of PCR and temporary protection implemented. 6. Responsible authorities would be in charge of	Engineering Cost	Contractor	DAD Regional Engineerar& PDPD , ESO

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
			protecting and preserving the site before deciding on the proper procedures to be carried out. 7. 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 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. 8. 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.			
03.	**Impact to water bodies**	1.Construction site debris 2.Solid waste &construction waste 3.Construction of Toilet pits 4.Piled up	**1.** During the rainy season to prevent runoff debris solid waste should be properly segregated and disposed**.** 2. Run off debris should not be accumulated in water bodies . 3. Toilet pits should be constructed maintaining the 50 feet distance from the wells .	Engineering Cost	Contractor	DAD Regional Engineerar& Provincial

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
		excavated Soil at the site 5.Mosquito breeding	4. Excavated Soil should be covered until it is properly removed or compacted to prevent siltation in the water bodies. 5. All the utensils used for construction should be covered to avoid water accumulation to prevent Mosquito breeding grounds.			PDPD , ESO
04.	**Over extraction of natural resources**	Material Sourcing	1. The contractor is required to ensure that sand, aggregates and other quarry material are sourced from licensed suppliers. The contractor is required to maintain the necessary licenses and environmental clearances for all burrow and quarry material 2. Sourcing of any material from protected areas and/or designated natural areas, including tank beds, are strictly prohibited. 3. Ifthe contractor uses a non-commercial burrow/quarry sites, the sites should be remediated accordingly once material sourcing has been completed.	Engineering Cost	Contractor	DAD Regional Engineerar& Provincial PDPD , ESO

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
			4. The contractor should submit in writing all the relevant numbers and relevant details of all pre-requisite licenses etc. and report of their status accordingly.			
05.	**Impact on existing habitats, trees**	• Vehicle and machinery movements	1. **Due to the construction 3 trees will be removed from the ASC premises.** **2.** The following steps are to be followed for the trees removal during the rehabilitation work. **i.** Identify and document the number of trees that will be affected with girth size & species type ii. Trees shall be removed from the construction sites before commencement of construction with prior permission from the concerned department (LA). iii. Compensatory plantation by way of Re-plantation of at least twice the number of trees cut should be carried out in the project area. iv. The contractor shall adhere to the guidelines and recommendations made by the Central Environmental Authority (CEA), if any with	Engineering Cost	Contractor	DAD Regional Engineerar& PDPD , ESO

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
			regard to felling of trees and removal of vegetation. v. Removed trees of economic value must be handed over to the State Timber Corporation. 3. The contractor shall make every effort to avoid removal or destruction of trees, of religious, cultural and aesthetic significance. 4. If such action is unavoidable, the Engineer shall be informed in advance to verify and report on the technical justification for the trees that will be required to be removed.			
06.	**Spreading of Invasive**	▪ Vegetation clearing▪ Material &transportation	1. Close monitoring of transportation, storage of borrowing material for the spread of any invasive species must be done. 2. Invasive pants species removed should be destructed onsite without transporting to another place. 3. Vehicles should be covered during transportation of cleared vegetation to and from the construction site.	Engineering Cost	Contractor	DAD Regional Engineerar& PDPD , ESO

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
			4. 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 burrow material. 5. The construction site should be inspected periodically to ensure that no invasive species are establishing themselves at the site.			
07.	**Air Pollution including dust generation that can affect nearby vegetation and households**	Setting up of material storage yards, and removal of vegetation ▪ Transport of construction material and storage on site	In the **construction method statement**, 1. the contractor should clearly designate areas for maintaining material stock piles, waste stock piles, labour camps and vehicle maintenance yards. These dust emitting sources should be located away from human activity and natural drainage paths as much as possible. 2. All heavy equipment and machinery shall be fitted in full compliance with the national and local regulations. 3. Stockpiled soil and sand shall be slightly wetted before loading, particularly in windy conditions. 4. The site should be wetted at least 2/3 times a day during dry weather to keep dust levels low.	Engineering Cost	Contractor	DAD Regional Engineerar& PDPD , ESO

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
			5. Vehicles transporting soil, sand and other construction materials shall be covered. Limitations to speeds of such vehicles are necessary. 6. Transport through densely populated area should be to avoid air emissions. 7. There should be no burning of wastes on site. 8. 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.			
08.	**High Noise & Vibration levels that can affect nearby structures and wildlife**	▪ Operation of equipment and machinery. ▪ Material storage and transport	1. Working time for noise/vibration generation activities should be restricted and carried out only from 6.00 am to 7.00 pm. 2. All equipment and machinery should be operated of noise not to exceed 75 dB (during construction) as practical as possible. 3. 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	Engineering Cost	Contractor	DAD Regional Engineerar& PDPD , ESO

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
			happen during the night time, it is necessary to maintain the noise level at below 50 dB. 4. Use of mechanically driven saw blades for tree felling will make the noise levels restrict to only a short period of time. 5. Construction equipment and machinery should be maintained in good condition. 6. Contractor shall submit the list of high noise/vibration generating **machinery & equipment** to the Personal Protective Equipment's for approval.			
09.	**Blocking of surface drainage paths leading to localized flooding and ponding of**	• Site Preparation including provision of access roads, material/waste piles	1. Until transported out to arranged disposal sites, debris and waste from site preparation work and 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. 2. The stockpiles should be suitably covered to	Engineering Cost	Contractor	DAD Regional Engineerar& PDPD , ESO

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
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	water		minimize wash-offs to nearby waterways. 3. If impacts to surface drainage cannot be avoided leading to ponding of rain water and inconvenience to people, the contractor must provide an adequate surface drainage system to safely remove water from the site to canal to avoid on site ponding or flooding. 4. Proper planning to avoid construction during rainy season. 5. Preventing total blockage of streams/ providing alternative drainage path during construction.			
10.	**Prevention of possible Soil erosion, sedimentation of nearby water**	Construction work ▪ Removal of top soil	1. Soil stockpiles and other construction material should not be placed within care 2. Installing and maintaining permanent erosion and sediment control measures shouldb taken not to block waterways.	Engineering Cost	Contractor	DAD Regional Engineerar& PDPD , ESO
11.	**Issues of use water supply for the**	Supply of Water for the site	1. The contractor should arrange adequate supply of water for the project purpose throughout the construction period from a source agreed upon with the engineer.	Engineering Cost	Contractor	DAD Regional Enginee

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
	construction activities		2. Water may not be obtained for project purposes, including for labour camps, from public or community water supply schemes without a prior approval from the relevant authority. 3. Extraction of water from ground water or surface water bodies without the permission from Engineer and the relevant authority 4. Permission for the extraction of water should be obtained prior to the commencement of the project, from the relevant authority.			rar& PDPD , ESO
12.	**Solid Waste Disposal**	▪ Waste from labour camps	1. The contractor shall make a list of all types of waste resulting from the construction activity, and obtain direction from the Local Authority(LA) on possible disposal sites for each waste type.	Engineering Cost	Contractor	DAD Regional Engineerar& PDPD , ESO
13	**Solid**	▪ Demolisher	**2.** Any hazardous type of waste shall be dealt with			DAD

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
	Waste Disposal	items ▪ Asbestos debris generate from demolished items	special care and instructions from the LA. **3.** The contractor shall document all types of waste generated and removed from the site and the disposal locations. **4.** The contractor shall remove waste from the site each day and dispose of the waste in the LA approved site/s.			Regional Engineerar& PDPD , ESO
14.	**Public/occupational safety hazard**	▪ Site clearing, storage of equipment, material etc ▪ Increased traffic of heavy vehicles for material transportation ▪ Noise and vibration of construction machinery	**Training** 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. **2. Personal Protective Equipment** All workers will be provided with necessary PPEs (basic should include safety helmet, protective footwear and high visibility jackets). 3. Gloves, ear muffs, goggles, dust masks, safety harness and any other equipment considered necessary should be maintained in stock at the site office. 4. A safety inspection checklist should be prepared taking into consideration what the workers are	Engineering Cost	Contractor	DAD Regional Engineerar& PDPD , ESO

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
			supposed to be wearing and monitored.			
15.	**Public/occupational safety hazard**	Site safety measures Workers safety measures	**Site Delineation and Warning Signs** 1. The entire construction site should be delineated using devices such as cones, lights, tubular markers, orange and white strips and barricades to inform oncoming vehicular traffic and pedestrians in the area about work zones. 2. People should not be allowed to enter the construction area, where the contruction activities take place close to public waiting/visiting areas, Barricading screens should be used to ensure public will not be exposed to safety risks from contructionactivitieswhre the new bulding construction takesplace. 3. Dangerous warning signs should be raised to inform public of particular dangers and to keep the public away from such hazards. 4. Overloading of vehicles with materials should be controlled	Engineering Cost	Contractor	DAD Regional Engineerar& PDPD , ESO

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
			5. Construction wastes should be removed as much as possible within 24 hours from the site to ensure public safety. 6. 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. **7. Equipment safety** 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 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. **8.** All equipment and veihiles to be stored/parked away from public visiting areas, barricaded and warning signs posted.			
			Emergency Procedures	Engin	Contract	DAD

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
16.	**Public/occupational safety hazard**	Prevention of Accidents and workers safety Public safety measures	9. An emergency aid service must be in place in the work site. 10. 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. **Information management** 11. Develop and establish contractor's own procedure for receiving, documenting and addressing complaints from the affected public and nearby communities. 12. Provide advance notice to local communities by way of information boards or leaflet, during village committees about the schedule of construction activities, interruption to services and access etc.	eering Cost	or	Regional Engineerar& PDPD, ESO
17.	**Construction camps conditions**	Camp site management	**Construction camps** 01.Construction camps should have adequate sanitation facilities for construction workers to control transmission of infectious diseases. 02.Avoid housing workers in camps and provide socio-economic benefits locally by employing local people. If	Engineering Cost	Contractor	DAD Regional Engineerar& PDPD

	Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Mitigation Cost	Responsibility	
					Implementation	Compliance Monitoring
			there is no alternative to employing workers from elsewhere			, ESO
18.	**Construction camps conditions**	Camp site management	1. 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 camp sites after use and reinstate vegetation. Conduct programs to raise worker awareness of HIV/AIDS.	Engineering Cost	Contractor	DAD Regional Engineerar& PDPD , ESO
19.	**Restor the damage to the environment by Tree removal**	Re planting of trees	**2. Due to the construction 3 trees will be removed from the ASC premisus.** Therefor for each tree that will be removed ,two trees need to be planted in a provided space of the same ASC premises or near by place .	Engineering Cost	Contractor	DAD Regional Engineerar& PDPD , ESO

Annexure – I Activity plan / Time frame

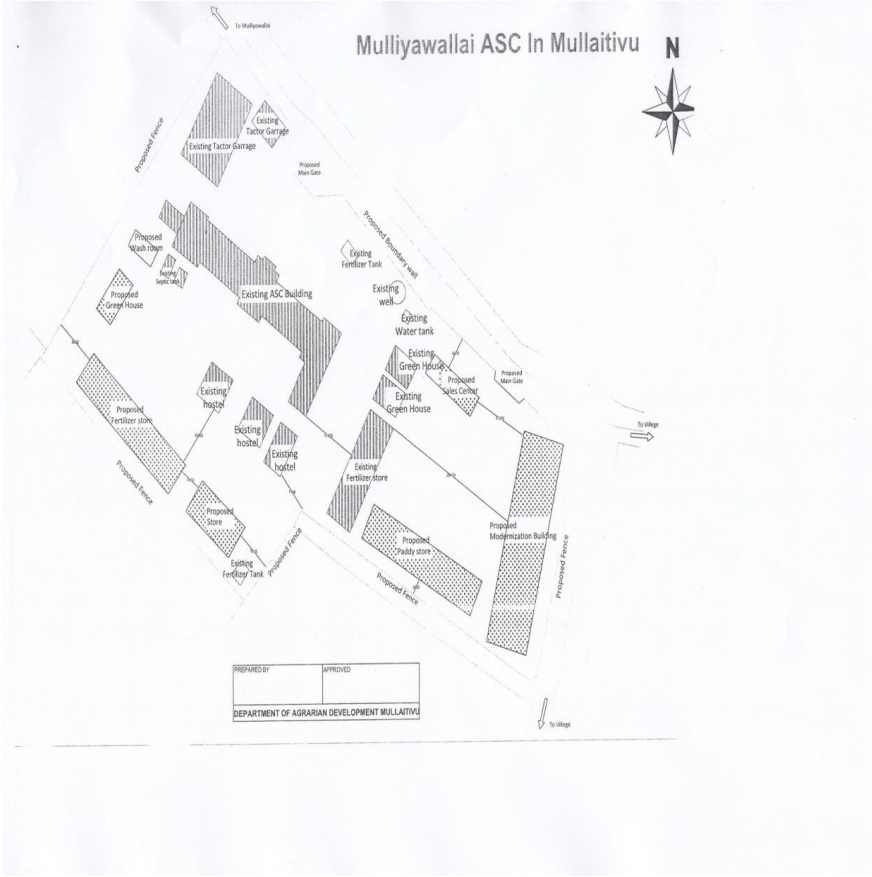
Muliyawalai ASC modernization & Digitalization (Civil work)

SN	Activities	2019						2020											
		July - Sep			Oct - Dec			Janu - Mar			Api rl - June			July - Sep			Oct - Dece		
01	Conducting IEC Compaign																		
02	Preparation of the sub project proposal ASC modernization and degitalization																		
03	Preparation of technical designs & estimates																		
04	Data collection for screening																		
05	Writing the screening check list																		
06	Write the ESR & EMP																		
07	Submit to PMU																		
08	Get the clearance from the WB																		
09	Tender calling procedure																		
10	Civil work commence																		
11	Supervision & Monitoring																		

12	**Completion of construction work**																		
13	**Hand over civil work**																		

Annexure – II Sketch Map of the Muliyawalai ASC

(Including Existing building & Proposed development)


Mulliyawallai ASC In Mullaitivu
N
To Mulliyawallai
Existing Tactor Garrage
Existing Tactor Garrage
Proposed Fence
Proposed Main Gate
Proposed Boundary wall
Proposed Wash room
Existing Septic tank
Existing Fertilizer Tank
Existing well
Existing Water tank
Existing ASC Building
Proposed Green House
Existing Green House
Proposed Sales Center
Proposed Main Gate
To Village
Existing hostel
Existing hostel
Existing hostel
Proposed Fertilizer store
Existing Fertilizer store
Proposed Fence
Proposed Store
Existing Fertilizer Tank
Proposed Fence
Proposed Paddy store
Proposed Modernization Building
Proposed Fence
Proposed Fence
PREPARED BY
APPROVED
DEPARTMENT OF AGRARIAN DEVELOPMENT MULLAITIVU
To Village

Annexure - III Attendance sheet for public consultation meeting participation

Climate Smart Irrigated Agriculture Project (CSIAP), Northern Province.

IEC Campaign / PRA Attendance of Participations/Public consultation meeting Atterdance

Date: 11.11.2019. Venue: Muliyawalai

இல	பெயர்	விலாசம்	ஆண் / பெண்	தொ.பே. இல	கையொப்பம்
1	[illegible]	[illegible]	ஆண்	0775712970	[illegible]
2	[illegible]	" "	ஆண்	0774511146	[illegible]
3	[illegible]	[illegible]	ஆண்	0779904451 52	[illegible]
4	[illegible]	[illegible]	ஆண்	0773678271	[illegible]
05	[illegible]	[illegible]	ஆண்	0772272472	[illegible]
06	[illegible]	"	ஆண்	077-5084655	[illegible]
07	[illegible]	" "	ஆண்	077-40180 40	[illegible]