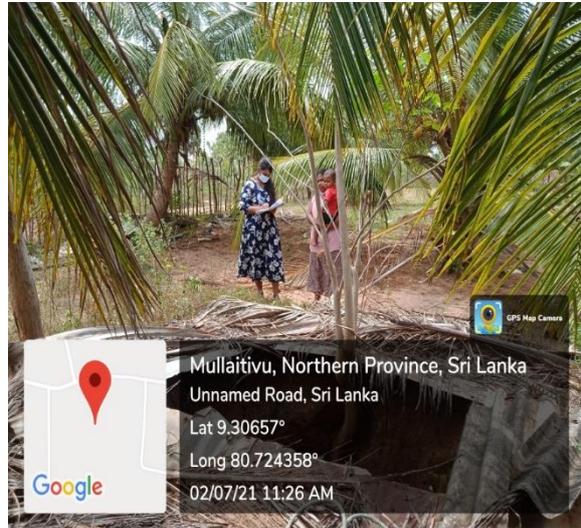




Climate Smart Irrigated Agriculture Project (CSIAP)
Ministry of Agriculture (MoA)

**ENVIRONMENTAL, SOCIAL, AND GENDER SCREENING REPORT FOR
REHABILITATION OF AGRO WELL UNDER ODDUSUDDAN, THUNUKKAI,
MULLIYAWALAI & PUDUKKUDIJIRUPPU ASC IN MULLAITIVU DISTRICT,
NORTHERN PROVINCE**



Submission By
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PDPDO/ Northern Province
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Environmental, Social and Gender Screening Report for Rehabilitation of Agro-wells in Mullaitivu District

01. Introduction of the Safeguard for Agro well rehabilitation Subproject

The Climate Smart Irrigated Agriculture Project (CSIAP) environmental, social, and gender safeguard policies are designed to prevent and mitigate undue harm to people and their environment in the implementation of specific projects activities and also to ascertain the benefits reach the target farmers. Implementation of safeguard policies under the CSIAP project will comply with the World Bank's safeguard policies. Therefore, subproject preparation involves environmental and social screening/assessment and consultations with multi-stakeholder groups in the targeted subproject areas.

This screening process allows all parties involved to anticipate potential positive as well as negative impacts of each sub-project and to implement measures that reinforce the positive aspects and mitigate the negative consequences. Thus, it is expected to bring positive environmental and social benefits to the project areas through the scale-up of climate-resilient agricultural technologies and farming practices that help to improve soil health, water use efficiency, and catchment area treatment to promote more efficient use of surface water and more sustainable use of groundwater for agriculture.

The expected output of this program is an increase in cultivation area. Due to the lack of water, some areas were not cultivated and they are facing water scarcity for agricultural activity. To overcome this issue to some extent this program will be implemented. Agro well rehabilitation program will be implemented in already existing cultivation areas. Also, these Agro well rehabilitation programs will not involve the clearing of any new areas.

There are 22 agro wells, two from Thunukkai DS division, five from the Matrimapattu DS division, five from Puthukudiyirupu (PTK) DS division & ten from Oddusuddan DS division, identified for renovation. These agro-wells are in different stages of dilapidated conditions. Most of the wells have no lined walls, inner sidewalls are collapsed, and some wells are filled with mud reducing the capacity. However, these wells have reasonable water recharging capacity, and the water quality is perfect for agricultural purposes. The safety aspect of the wells will also be increased by ensuring a protective wall of 900mm height. This will lead to a reduced risk of accidents for animals and humans in the area.

The ownership details of the agro wells are attached in the annex with the beneficiary list. These agro well will be constructe in the private land. They have deed or either permit to to confirm their land ownership. These are not common agro wells, these agro wells will be rehabilitated in their private lands. Operational & maintenance of the agro wells will be done by the individual farmers.

Community contribution will be there during the agro well rehabilitation programme. Basically, its labor work contribution. However the vulnerable groups like elderly and women headed homes should not be affected during the community contribution requirement because family members/ farmer organizations or other CBOs are willing to help them if any assistance needed.

02. Subproject activity description

Table 1: Distribution of Agro-wells proposed for renovation in the Mullaitivu district.

District	DS Division	ASC Division	No of agro wells for renovation
Mullaitivu	Martimapattu	Mulliyawalai	05
	Thunukkai	Thunukkai	02
	PTK	PTK	05

	Oddusuddan	Oddusuddan	10
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3. Description of the area

Physical features											
Topography and terrain	The topography of the Mullaitivu district is flat land. But the Western side of the land is gently sloping aside. This district has 70 Km of the coastal belt. There are four lagoons namely Kokkulai, Nayaru, Nanthikadal, and Mathalan with high potentials for prawn culture. The elevation within the district varies from sea level to 36.5 meters.										
Land use of the area	The land use pattern of the area varies depending on the type of land. Mostly OFCs like Groundnut, Black gram, and sesame, etc., are cultivated in the upland. Paddy is usually cultivated in the low land during the Maha season. The Low country vegetables like brinjal, tomato, red onion &, etc., are also cultivated.										
Soil (<i>type and quality</i>)	Reddish Brown Earth soils are dominant in the project site.										
Surface water (<i>Sources, distance from the site, local uses, and quality</i>)	The Project area is approximately 25 km away from the Coastal area (Mullaitivu Beach). Kulamurippu Tank is found about 1km from the project site.										
Water supply method of the area for Agriculture	Table 1: Water source for Agriculture in the project location										
	<table border="1"> <thead> <tr> <th>ASC</th> <th>Water supply methods for agriculture</th> </tr> </thead> <tbody> <tr> <td>Thunukkai</td> <td>Rainfed and well</td> </tr> <tr> <td>Oddusuddan</td> <td>Rainfed and well</td> </tr> <tr> <td>Mulliyawalai</td> <td>Rainfed and well</td> </tr> <tr> <td>PTK</td> <td>Rainfed and well</td> </tr> </tbody> </table>	ASC	Water supply methods for agriculture	Thunukkai	Rainfed and well	Oddusuddan	Rainfed and well	Mulliyawalai	Rainfed and well	PTK	Rainfed and well
	ASC	Water supply methods for agriculture									
	Thunukkai	Rainfed and well									
	Oddusuddan	Rainfed and well									
Mulliyawalai	Rainfed and well										
PTK	Rainfed and well										

Flooding	The Project site has not been subjected to flooding during the last 10 years.
Vegetation (Trees, ground cover, aquatic vegetation)	There are trees such as Tamarind (<i>Tamarindus indica</i>), Neem (<i>Azadirachta indica</i>), Woodapple (<i>Limonia acidissima</i>), and Teak (<i>Tectona grandis</i>) that are common to the dry zone area.
Archeological resources (recorded or potential to exist)	Archaeological Resources in the proposed project site are not recorded.
Presence of wild animal	Wild pig (<i>Sus scrofa</i> spp), Rat (<i>Rattus</i> spp), Palm squirrel (<i>Funambulus palmarum</i>), Giant squirrel (<i>Ratufa macroura</i>), Rabbit, and Monkey are the mammals that can be seen in the area. Elephants usually roam around the area during the night.
HEC in the area	Human elephant conflict may increase day by day. But farmers practice different tactics to nullify the Human elephant conflict. Though there some elephant protection fence is fixed, sometimes elephants attack humans and damage crops. People ensured during the field visit that, this Agro well rehabilitation program will not be affected due to the HEC or other wild animals.

04. Socio-economic profile of the community

Table 03: Socio-economic profile of the community

Name of the ASC	Name and Number of the GND	Total Number of Families	Total Number of Farm Families	Total Number of Woman Headed Families	# of Male beneficiaries	# of female beneficiaries
Mulliyawalai	Mulliyawalai East (MU/108)	9,686	1,821	1,675	5	1
Oddusuddan	Vithiyapuram (MU/65)	4,100	1,900	780	7	3
Thunukkai	Thunukkai (MU/16)	3,942	1,241	650	2	0
Puthukkudiyiruppu	Puthukkudiyiruppu West (MU/41)	8,871	1,840	1,294	3	2
Social Capital	There are CBOs in the project Area such as Farmer Organization, Women Societies, Funeral Societies, and Village Development Societies					
Sensitive location	This sub-project is implemented in private land houses only located in nearby places.					

05. Social/Environmental Impacts and Gender Inclusion (Positive/Negative) and Mitigation Measures

Positive social, environmental & gender impacts.

1. Sufficient water will be available for cultivation, especially during the dry season.
2. Farmers can cultivate entire land and ensure irrigation right throughout the cropping period.
3. Farmers' income will be increased as their yield and total production is going to be increased.
4. Risk in cultivation and uncertainty will be reduced
5. Marketable yield will be increased.
6. Enough water will be available for other activities like livestock, fisheries, cottage industries, etc.
7. Enthusiasm will be created for cultivation among farmers with more water availability. Government officials like AI, ADO, and other relevant stakeholders will visit these areas more frequently to provide technical know-how and to sort out problems related to input and output supply.
8. There will be an employment generation during the renovation of these wells.

Negative social, environmental & gender impacts.

1. Noise and dust during the construction work may disturb the farmers.
2. There may be problems in water recharge as there are wells in close proximity.

Therefore, the program will take the following measures to address the identified risks:

Beneficiaries will be required to develop and implement a code of conduct for laborers, including procedures to establish and maintain a safe working environment. Adequate care and measures will be taken to avoid any violation of the use of labor, accidents, or disputes with local communities and other risks associated with the influx of non-local workers.

The grievance redress mechanism will be established to allow staff to raise any complaints and provide feedback regarding construction activities.

06. Community Consultation for implementing the Sub-project

Public consulted/ Location	No: Male	No: Female	Total	Consultation method	Date	Details/Issues raised
Oddusudan	03	01	04	Individual consultation	2021.07.02/08	During the discussion, farmers gave their consent to the project. They have agreed to provide community contribution and support.
Thunukki	01	00	01	Individual consultation	2021.07.27	During the discussion, farmers gave consent to the project. Also, they have agreed to provide community contributions in kind. Farmer expects to get the agro well rehabilitated quickly.
Mulliyawalai	03	01	04	individual consultation	2021.07.08	During the discussion, farmers gave consent to the

						project. Also, they have agreed to provide community contributions in kind. They expressed their willingness to get the work done quickly.
PTK	03	01	04	Individual consultation	2021.07.02	The farmers were happy about the visit of CSIAP staff. Full consent was given to the project.

07. Screening for Potential Environmental Impacts

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
Project Construction impacts					
1	Will the Agro-well construction cause the removal of large trees in the area?		✓		This is a proposal to renovate existing Agro-wells. Therefore, no need for any tree removal.
2	Will construction of agro well involve		✓		This is a renovation activity. Therefore, there

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
	actions changes in the topography, land use, changes in water bodies, etc?				are no changes in topography, land use & water bodies.
3	Will the rehabilitation cause soil erosion?		✓		No land clearing or removal of trees Therefore no chances for soil erosion.
4	Will the Project cause noise and vibration pollution		✓		No use of heavy machinery or equipment
5	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 agro-well rehabilitation. There will be no pollutants released into the environment.
6	Will there be any risks and vulnerabilities to	✓		low	There is no public movement on the sites. However, precautions will

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
	public safety due to physical hazards during the construction?				be taken to avoid any accidents during construction. Accident prevention site safety measures will be given by ESMP.
7	Are there any transport routes on or around the location which are susceptible to congestion		✓		No public transport routes on or around the location because these wells are constructed in private lands.
8	Will there be any permanent or temporary loss of income and livelihoods because of the civil works?		✓		There will be temporary job opportunities for skilled and unskilled labor in the surrounding areas
9	Are there any other areas on or around the location which are important or sensitive for reasons of their ecology e.g. wetlands,		✓		No ecologically sensitive areas within a 200 m radius of the project site.

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
	watercourses or other water bodies, the coastal zone, mountains, forests?				
10	<p>Will the project increase HEC in the area.</p> <p>Will any part of the project's construction activities be located in a previously undeveloped area where there will be a loss of greenfield land</p>		✓		<p>Even though HEC is a problem in the area, agrowells do not influence HEC. There are no national parks in the Mullaitivu district. Elephants are coming from nearby natural forests.</p>
11	<p>Will any part of the project's construction activities be located in a previously undeveloped area where there will be</p>		✓		<p>Project sites are located in lands used by people. Therefore no loss of green greenfield or removal of vegetation will be done.</p>

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
	a loss of greenfield land				
12	Will the project cause any offsite impacts from example burrowing, quarrying, relocation of facilities, etc?		✓		
13	Are there any areas or features of historic or cultural importance on or around the location?		✓		
14	Are their sanitary units planned?		✓		
15	Will the project lead to stagnant water and drainage problems causing increased mosquito breeding		✓		Rehabilitation will be done during the driest month and the soil type is sandy. So there is no chance for water stagnation and muddy condition.

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks	
16	Has the project received community consent and support	✓			Yes. Family members also will support the construction of the agro-well	
17	Are there any vulnerable people or groups (poorest/ women-headed households/ elderly families/ single parents/ families with disabled persons) living in the proposed locations or affects or benefitted by the project interventions? (give the numbers)	✓		Moderate	Details of the vulnerable group	Numbers
					WHF/ Widow	02
					Senior Citizens/ Elders	02
					Samurdhi Beneficiary families	17
					Disable/Special Need People	0
18	Will the project potentially involve an influx of workers to the project location?		✓			

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
19	Can the project hire workers from the local workforce?	✓		Low	In the event, insufficient family labor, outside labor can be hired.
20	Will the project mobilize these CBOs for GRM/ Social Audit/ etc activities?	✓		Low	Yes. It was agreed at the consultation meeting.
21	Undertaken consultations with women's groups?	✓		Low	Women beneficiaries participated in the consultation meeting.
23	Issues related to GBV and GBV-related concerns about the project have arisen in the community engagement discussions?		✓		Participants have not discussed or raised any such issues
23	Is land & agro well belong to farmer	✓		High	Privately owned land and agro well
24	Is the owner take operational and maintenance responsibility?	✓		High	Agro wells are constructed on private land. Operational and maintenance

	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
					responsibility goes to the owner. The owner should take safety measures during operations.
25	Is the community contributing to this project	√		High	CSIAP provides a maximum of 300.000.00 and the balance part of the estimate should be contributed (financially or labor) by the owner.

08. Permits and clearances needed for project to proceed

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

09. Screening Decision Recommendation (check one):

Project Safeguard Category (Environmental, Social and Gender)	Recommendation	Yes/ No
01	<p>All potentially adverse effects can be classified as general cultivation-related impacts and are mitigated with known technology. Community concern does not warrant further assessment.</p> <p>Therefore, stand-alone Environmental Social and Gender Assessment is not required, an Environmental and Social Management Plan and/or Pest Management Plan would be sufficient</p>	yes
02	<p>Potential adverse impact is significant, hence, a stand-alone Environmental Assessment and Management Plan needed before the project can proceed</p>	No

10. Environmental & Social Management Plan (ESMP)

Potential Environmental Impacts and Risk Level	Key project activities causing the impacts	Mitigation Measures proposed and action to be implemented by the Contractor	Implementation	Compliance Monitoring
Public complaints and lack of community support for the project implementation	Information Disclosure among Stakeholders	<p>Discussions should be conducted with the project affected persons/owner. Residents in the area have to be briefed on the project, purpose, and design, and outcomes via a documented community consultation session. Possible problem in water recharge due to proximity has been identified and this should be discussed with the potentially affected community and consensus obtained before commencement of work.</p> <p>The contractor/owner 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 ESMP to mitigate them.</p>	Contractor / Owner	Provincial DPD Office ESO/ SSO /
physical and cultural resources	Rehabilitation work	Upon discovery of physical cultural materials of Archaeological importance in the area, immediately stop construction activities and inform relevant officers	Contractor / Owner	Provincial DPD Office ESO/ SSO /

Over extraction of natural resources	Material Sourcing	The Contractor/ owner is required to ensure that sand, aggregates, and other quarry material are sourced from licensed sources.	Contactora / Owner	Provincial DPD Office ESO/ SSO /
Impact on existing habitats, trees	Vehicle movement	There is no tree removal estimated for the Agro well rehabilitation in the given sites.	Contactora / Owner	Provincial DPD Office ESO/ SSO /
Air Pollution includes dust generation that can affect nearby vegetation and households	Setting up of material storage yards, and removal of vegetation	In the construction method statement, the contractor/owner should designate areas for maintaining material stockpiles, waste stockpiles. These dust emitting sources should be located away from human activity	Contactora / Owner	Provincial DPD Office ESO/ SSO /
Environmental pollution and degradation due to waste generation.	Construction rubble and waste and domestic waste are generated by workers.	The contractor shall ensure that all construction waste is cleared immediately from the rehabilitation site. The waste will only be disposed of in a suitable location in consultation with the local authority. When there is dredging/removal of earth involved, this material should be stored away from the immediate work	Contactora / Owner	Provincial DPD Office ESO/ SSO

	Dredge material may occur where there is deepening of wells.	<p>site if it is to be re-used. If it is not re-used, it should be disposed of in a suitable location.</p> <p>All domestic waste generated by workers will be collected properly and will be removed daily and disposed of appropriately.</p>		
Public/occupational safety hazard -	Site clearing, storage of equipment, material, etc.	<p>The contractor/owner must ensure that all workers' occupational health and public safety measures are taken.</p> <p>Ensure that equipment and material are stored appropriately to limit dust emissions, washout, stagnation of water (leading to mosquito breeding), etc. Special attention should be given during well de-watering to effectively drain the water.</p> <p>Agrowell site under rehabilitation should be cordoned off with no access to the public during construction activities.</p> <p>Good housekeeping practices to be adopted to minimize accidents and risks.</p> <p>Personal Protective Equipment (PPE)</p>	Contactora / Owner	Provincial DPD Office ESO/ SSO /

		<p>All workers will be provided with necessary PPEs (basic should include a safety helmet, protective footwear, and high visibility jackets, safety harnesses, etc.) to prevent any accidents.</p> <p>The owner should be implemented robust measures to prevent sexual harassment/GBV.</p>		
Health & safety	Prevention of COVID-19	Follow health & safety Guidelines to prevent COVID - 19	Contractor / Owner	Provincial DPD Office ESO/ SSO /

11. Safeguard Cost estimate

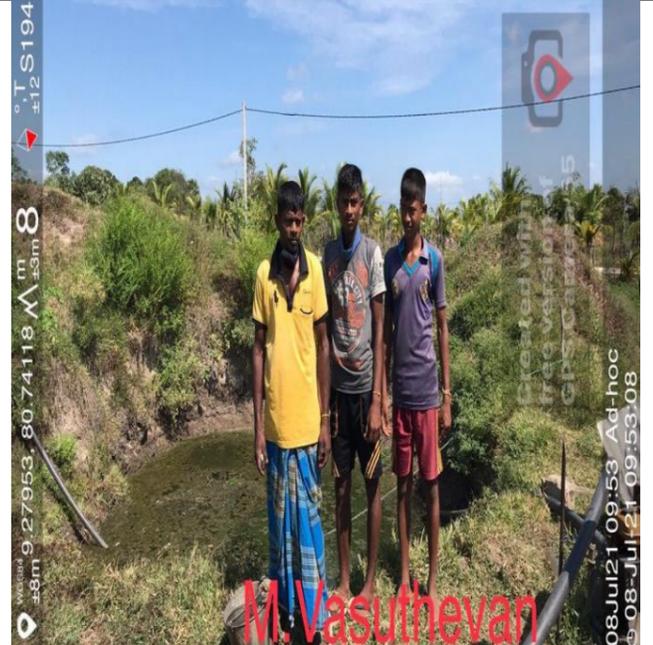
	Environmental and social safeguard mitigation measures	Cost (LKR)	Remarks
1	Sign boards	5,000	Safety signage
2	Safety equipment	4000/ person	Basic safety equipment includes safety helmet, protective foot wear, and high visibility jacket
4	On site first aid facilities	1500/ well	

12. Details of Persons Responsible for the Environmental/Social/ Gender Screening Report

<p>02. Report Prepared and Completed by</p> <p>03.</p> <p>Ms.Kesiga Sampasivam Environmental Safeguard Officer PDPD Office Northern Province Email -kesiga.sampasivam@gmail.com Date - 2021.08.23</p>		
<p>Social and Gender Inclusion Sections Reviewed By:</p> <p>.....</p> <p>Ms. Sharmila Shanmuganathan Gender Development Officer PMU - CSIAP Email: Sociologistssharmila@gmail.com Date - 27-08-2021</p>	<p>Environmental Section Reviewed By:</p> <p>.....</p> <p>M. Udula J. Sedera Environmental Officer - PMU/ CSIAP Email: jeny.usedera@gmail.com Date -27.08.2021</p>	<p>Recommended By:</p> <p>.....</p> <p>Dr. Janaka Jayawardana Environmental & Social Safeguard Specialist - PMU/ CSIAP Email: jaya.ybjn@yahoo.com Date -</p>
<p>Clearance Given By:</p> <p>Shanek Fernando Social Safeguard Specialist - The World Bank Consultant Date:</p>	<p>Nadeera Rajapaksha Environmental Safeguard Specialist - The World Bank Date: 17 - 09 - 2021</p>	

Beneficiaries details of agro well for 2021 – Mullaitivu district

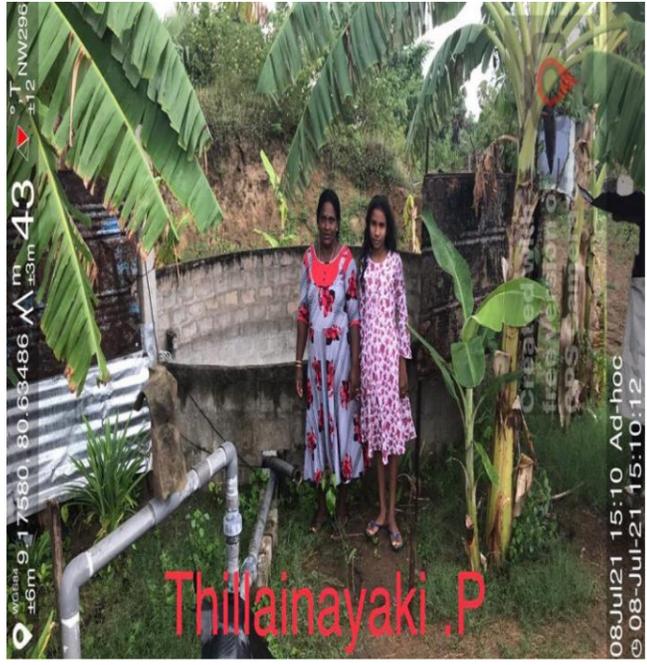
No	Farmer Name	NIC	Address	T.P No:	Women Headed	Widow	Samurdhi	Disable	Land Ownership	Extent cultivated	The extent to be added	Photos	Remarks
01.	R.Mohanakanthan		Katsilaimadu, Oddusuddan.				✓			2	3		<ul style="list-style-type: none"> • Internal diameter – 6.30 m • Water is used for the cultivation of brinjal, chili, long beans, ladies finger & OFCs. • Total extent available 5ac
02.	A.Pirapakar		Mannankandal, Oddusuddan.				✓		permit	0.5	0.5		<ul style="list-style-type: none"> • Internal diameter - 3.6m • Water is used for the cultivation of brinjal, cassava, chili, watermelon & OFCs.

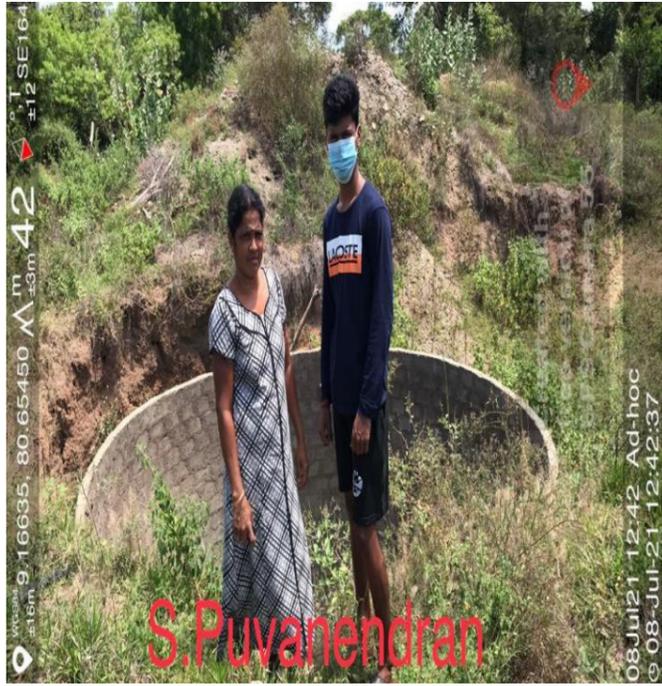
05.	P.Navarathinam		Keppapilavu, Mulliyawalai.				✓	Deed	1	1		<ul style="list-style-type: none"> • Internal diameter - 3.60 m • Water is used for the cultivation of groundnut, onion & OFCs. • Total extent available 2ac
06.	M.Vasuthevan		Keppapilavu, Mulliyawalai.				✓	Deed	1	2		<ul style="list-style-type: none"> • Internal diameter - 3.60 m • Water is used for the cultivation of groundnut, coconut & OFCs. • Total extent available 3ac
07.	K.Uthayathas		Keppapilavu, Mulliyawalai.					Deed	2	2		<ul style="list-style-type: none"> • Internal diameter - 4.50 m • Water is used for the cultivation of groundnut, coconut & OFCs. • Total extent available 4ac

08.	M.Kanakaladsumi		Keppapilavu, Mulliyawalai.					Permit	1	1		<ul style="list-style-type: none"> • Internal diameter – 1.80 m • Water is used for the cultivation of groundnut & OFCs. • Total extent available 2ac
09.	M.Kanistan		Mallikaithivu, PTK.			✓		Permit	0.2 5	0.25		<ul style="list-style-type: none"> • Internal diameter – 3.60 m • Water is used for the cultivation of brinjal, chili, tomato & OFCs. • Total extent available 0.5ac

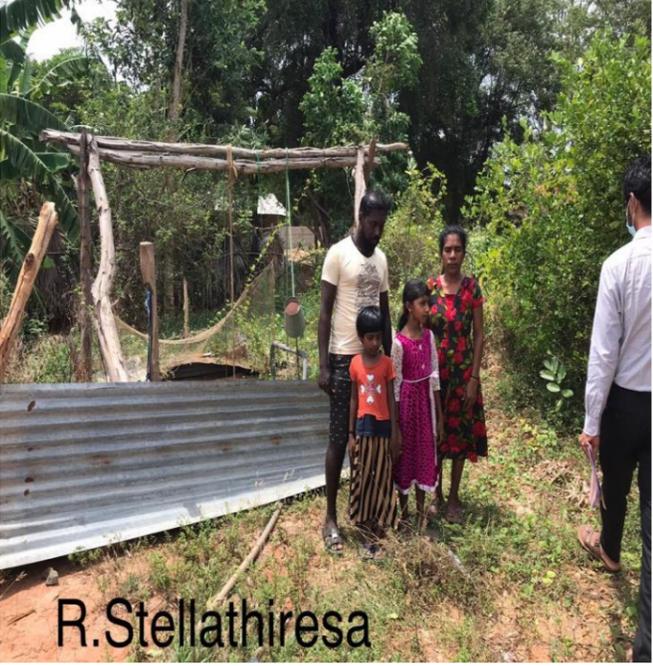
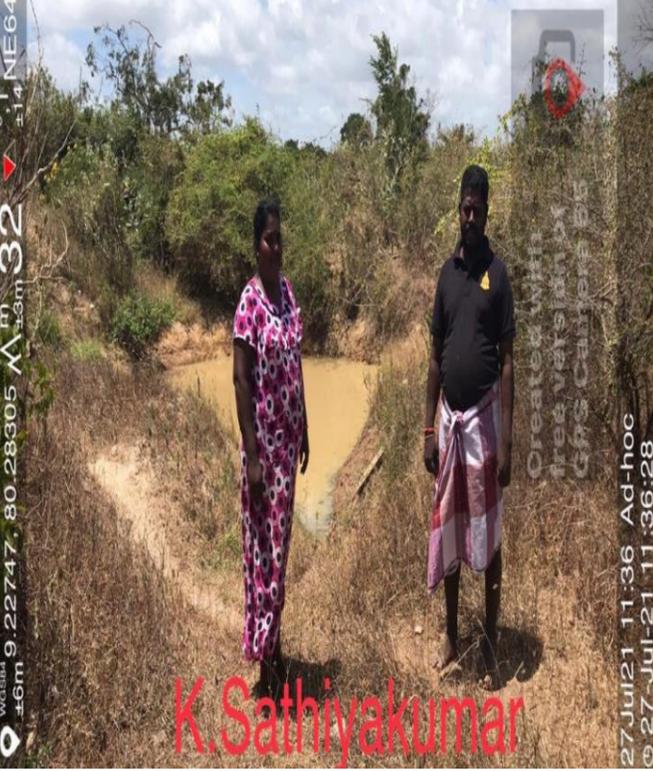
10.	T.Thayaparan		Mallikaithivu, PTK.			✓	Permit	1	1.5		<ul style="list-style-type: none"> • Internal diameter – 3.60 m • Water is used for the cultivation of groundnut, chili & OFCs. • Total extent available 2.5 ac
11.	S.Sanmuganathan		Thaddayanmalai, Oddusuddan.			✓	Permit	1.5	1.5		<ul style="list-style-type: none"> • Internal diameter – 3.60 m • Water is used for the cultivation of bananas, pumpkin & OFCs. • Total extent available 3ac

12.	S.Satheeshkumar		Koolamurippu, Oddusuddan.			✓		0.6	0.9		<ul style="list-style-type: none"> • Internal diameter – 3.60 m • Water is used for the cultivation of groundnut & OFCs. • Total extent available 1.5ac
13.	S.Nageswaran		Katsilaimadu, Oddusuddan.			✓	Deed	0.5	0.5		<ul style="list-style-type: none"> • Internal diameter – 4.05 m • Water is used for the cultivation of brinjal, cassava, chili, watermelon & OFCs. • Total extent available 1ac

14.	P.Thillainayaki		Thaddayanmalai, Oddusuddan.				✓	Permit	0.5	0.75		<ul style="list-style-type: none"> • Internal diameter – 5.00 m • Water is used for the cultivation of OFCs.(black gram) • Total extent available 1.25 ac
15.	T.Thushyanthan		Kaneshapuram, Oddusuddan.					Permit	1	2		<ul style="list-style-type: none"> • Internal diameter – 3.60 m • Water is used for the cultivation of OFCs.(cow pea) • Total extent available 3ac

16.	S.Puvaneshwaran		Vithiyapuram, Oddusuddan.					Permit	1	2		<ul style="list-style-type: none"> • Internal diameter - 6.00 m • Water is used for the cultivation of bananas, pumpkin & OFCs. • Total extent available 3ac
17.	P.Supramaniam		Keppapilavu, Mulliyawalai.			✓		Permit (Not received)	1	2		<ul style="list-style-type: none"> • Water is used for ladies' fingers, groundnut & OFCs. • Total extent available 3ac

18.	A.Priyatharsiny		Mallikaithivu, PTK.				✓	Permit	0.5	0.5		<ul style="list-style-type: none"> • Internal diameter - 2.43 m • Water is used for the cultivation of brinjal, banana, ladies finger, chili & OFCs. • Total extent available 1ac
19.	K.Pakkejeswary		Mallikaithivu, PTK.				✓	Permit (Still not received)	0.5	0.5		<ul style="list-style-type: none"> • Internal diameter - 3.65 m • Water is used for the cultivation of brinjal, long beans, ladies finger, chili & OFCs. • Total extent available 1ac

20.	M.Regan		Mallikaithivu, PTK.				✓	Permit (Not received)	0.2 5	0.25		<ul style="list-style-type: none"> • Internal diameter – 2.40 m • Water is used for cultivation of the brinjal, long beans, ladies finger, chilli & OFC. • Total extent available 0.5ac •
21.	K.Saththiyakumar		Koddaikaddiyakulam, Thunukkai.				✓	Permit	1.5	1.5		<ul style="list-style-type: none"> • Internal diameter – 3m • Water is used for the cultivation of chili, brinjal, groundnut, & OFCs. (black gram & green gram) • Total extent available 3ac

22.	K.Yogenthiran		Iyankankulam, Thunukkai.				✓		Permit (still not received)	1	4		<ul style="list-style-type: none"> • Internal diameter – 2.70 m • Water is used for the cultivation of bananas, brinjal, chili & OFCs. • Total extent available 5ac
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Photos were taken during Field visits and Consultations



Fig.1: Collecting necessary details from the beneficiary in PTK



Fig.2: Collecting necessary details from the beneficiary in Oddusuddan

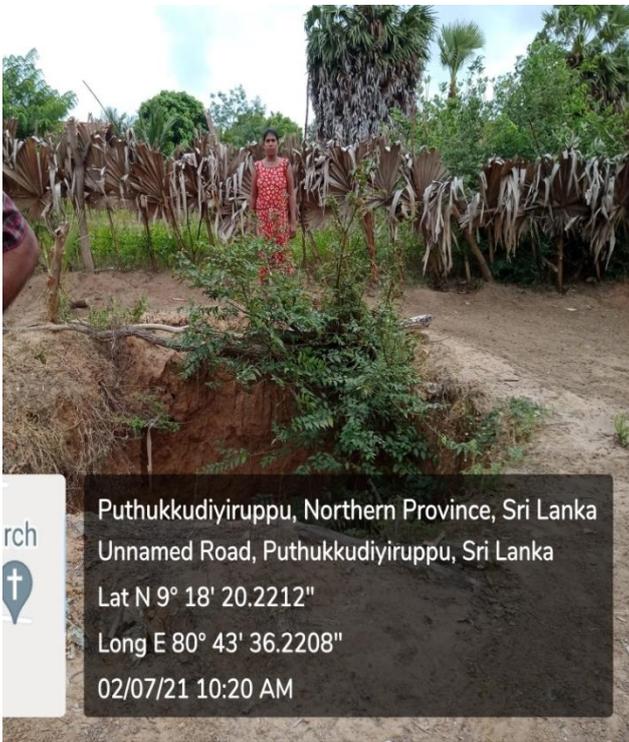


Fig.3: Selected agro well under PTK ASC

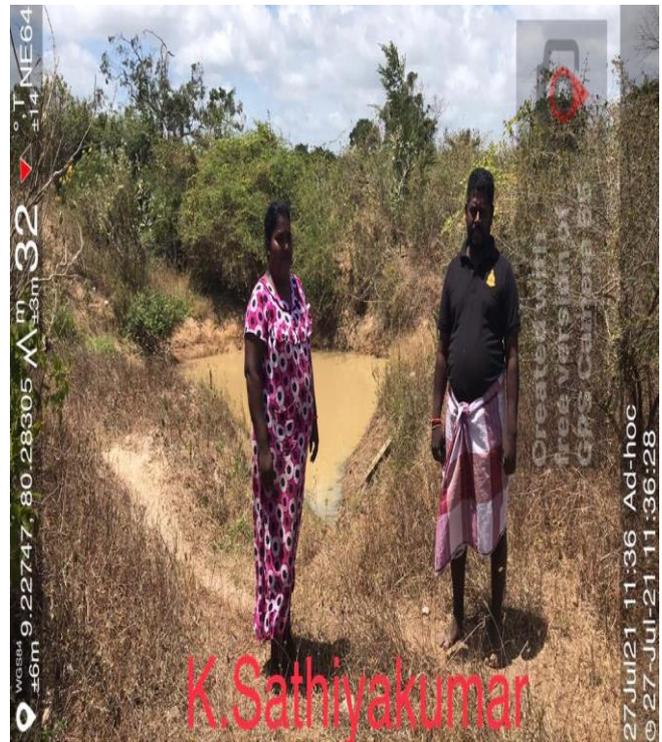


Fig.4: Selected agro well under Thunukkai ASC



Fig.5: Identifying the physical appearance & salinity of selected well water sample



Fig.6: Community consultation meeting

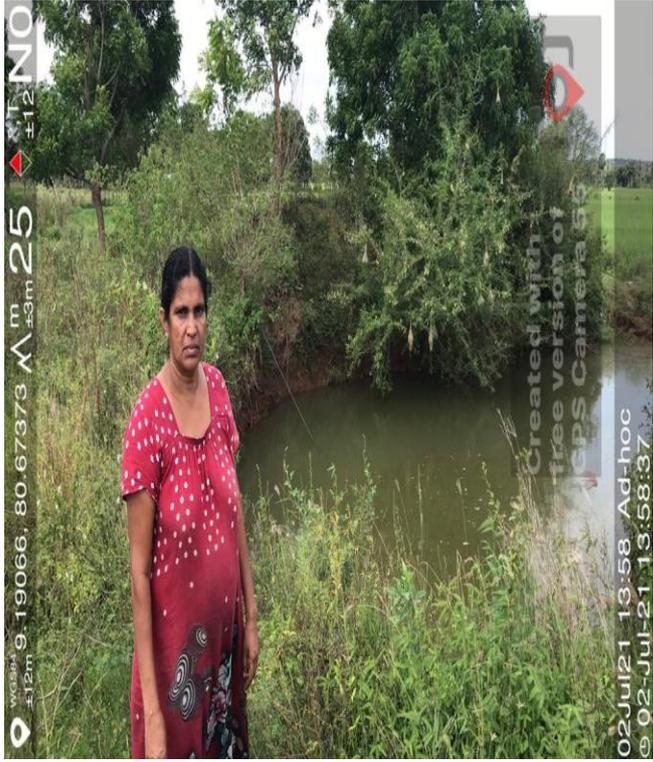
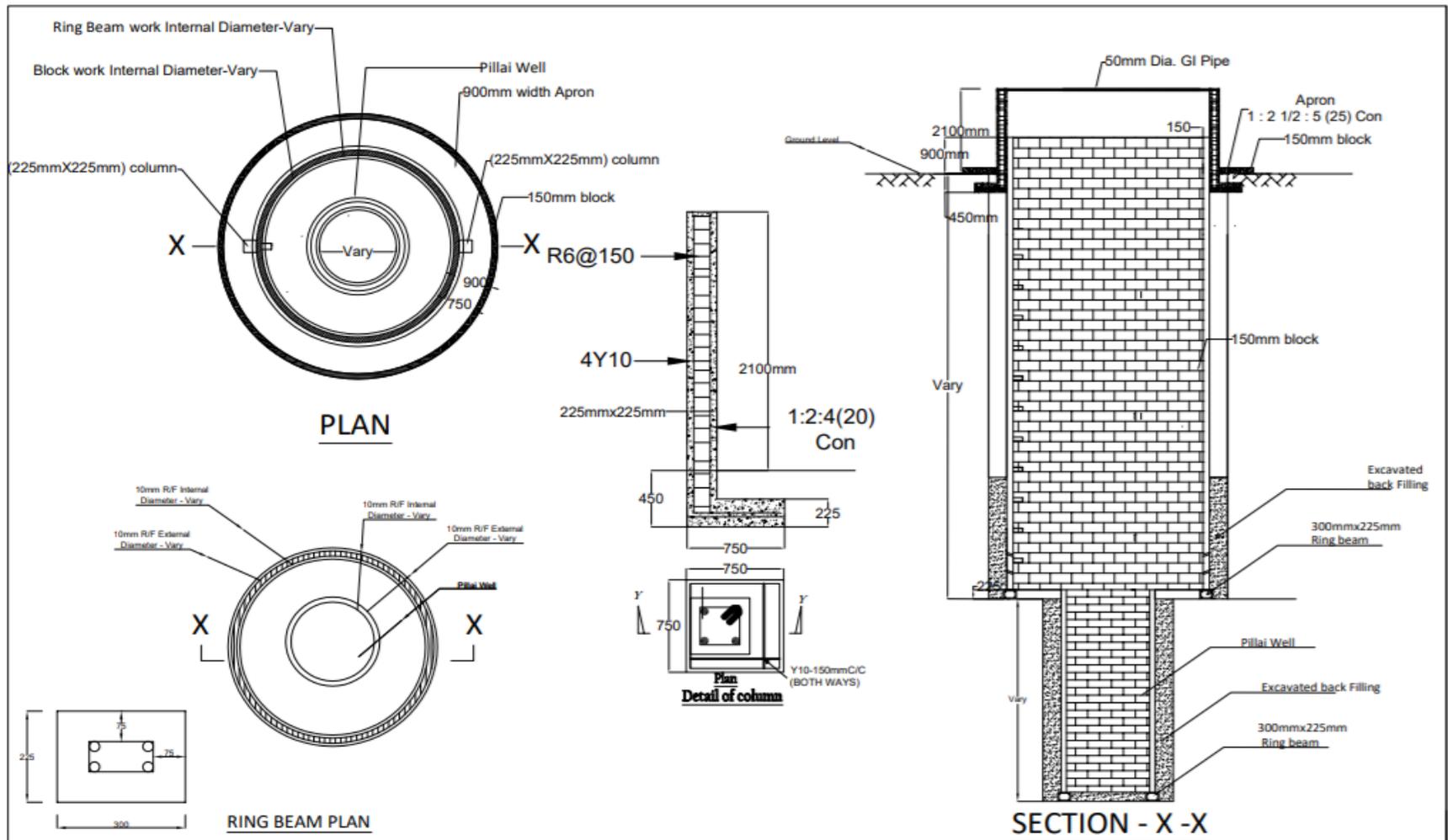


Fig.7: Some selected agro wells under Oddusuddan ASC

Annex I: Agro Well structural design



CSIAP - 2021
 DPD OFFICE- CSIAP
 NORTHERN PROVINCE

CONSTRUCTION OF RENOVATION OF AGROWELL
 Diameter and Depth can vary
 TYPE PLAN-02

All Dimensions Are In Millimeters

NO.	REVISION	DATE	BY	CHECKED	APPROVED
1					
2					
3					
4					
5					

