

MGNREGS

SUCCESS STORY

OF

FORMATION OF FARM POND FOR JAYALAKSHMI / SEETHARAMAN IN KANDRAKOTTAI PANCHAYAT

ANNAGRAMAM BLOCK

CUDDALORE DISTRICT

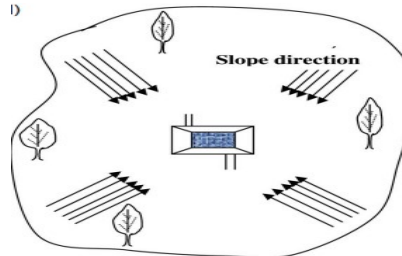
TAMILNADU

Format for Submission of Success Stories

State:	Tamilnadu
District:	Cuddalore
Block:	Annagramam
Name of the Asset:	Providing Farm Pond for Jayalakshmi / Seetharaman at Kandrakottai Panchayat
Work ID:	2903002011/IF/2905072586
Cost (Wage/Material):	1.2 Lakhs (0.045 Lakhs/ 1.15 Lakhs)
Work Start Date:	1.04.2023
Work End Date:	4.09.2023
Overview of the Project:	
Introduction to work: <i>(minimum 50 Words)</i>	<p>Government of India has introduced several schemes to improve the surface water availability in irrigated and rainfed areas for enhancing the productivity and ground water recharge. Integrated Watershed Management Programme (IWMP) has been implemented successfully in most of the rainfed regions of the country with major objective of the stabilizing crop production by controlling soil erosion in arable and non-arable lands. Among several interventions, farm pond is the most important and promising technology in the integrated water shed management program with other environmental benefits. Farm ponds would help the farmers for on farm water management by using stored water for tackling the drought or dry spells during the season.</p>
Need for work: <i>(minimum 50 Words)</i>	<p>Inthe current scenario, due to unpredictability in the rain and water cycle, results in the issue of water scarcity. Farmers can only grow crops during the rainy season throughout the year which results in low crop output and lower income by farmers. Hence, the formation of farm pond by the farmer Jayalakshmi / Seetharaman under MGNREGS, helps</p> <ul style="list-style-type: none">➤ To use the arable land resource to cultivate high-value crops.➤ To increase in income of farmers.➤ To do fish farming in the pond, provides more opportunity to grow their agriculture business.

	<ul style="list-style-type: none"> ➤ To provides water to growing crops, without waiting for rainfall. · ➤ To provide water for domestic purposes and other livestock.
<p>Challenges: <i>(minimum 50 Words)</i></p>	<p>Selection of site</p> <p>It plays a major and challenging role and one of the most important steps in planning in formation of farm pond for Jayalakshmi / Seetharaman in Kandrakottai village.</p> <p>It depends on local soil condition, topography of area, drainage capacity, infiltration, rainfall pattern and distribution.</p> <p>The following points have been considered for site selection within farm area:</p> <ul style="list-style-type: none"> ➤ Observed the average slope direction in the farm area in which farm pond is to be planned for construction ➤ If the slope is towards left bottom corner of the field, a farm pond must be constructed in the left corner. ➤ If the slope is towards bottom right corner of the field, a farm pond must be constructed in the right hand corner. ➤ If the slope is towards the bottom of the field, a farm pond must be constructed to the corner of either side with proper field channel at the bottom of the field connecting to the inlet of the structure. ➤ If the farm area has multiple slopes in different directions a farm pond must be located in a portion of area in which water is drained into the structure, may be at centre of the field or near to it. <p>By considering above factors, it was very challenging to select the exact location of construction of farm pond.</p>
<p>Implementation Process:</p>	
<p>How the work was implemented</p>	<p>Site Selection:</p> <p>The Farm Pond have been constructed at Latitude: 11.837116, Longitude : 79.557001, survey no: 13.</p> <p>As the beneficiary has own land of about 3 acres, the location of farm pond has been selected</p>

satisfying the condition such as,
If the farm area has multiple slopes in different directions (Fig), a farm pond must be located in a portion of area in which water is drained into the structure, may be at centre of the field or near to it.



Since the water draining slopes occurs at the the centre of the field, the site has been selected at centre which acts as a catchment.

Size of Farm Pond:

- The length and width of the farm pond has been maintained as 15 m.

Depth of the farm pond should be selected in such a way that there should be less evaporation losses. Hence,

- The depth of the farm pond has been selected as 1.5 m.

Hence the overall size of the farm pond was adopted as 15 m x 15 m x 1.5 m.

Method of Implementation:

For the construction of the farm pond, following methods have been implemented

- Initially the site should be free from vegetation, bushes, roots and other obstacles. As the site has been found with little bushes and vegetation, it has been levelled by MGNREGS workers with their own implements.
- The demarcation line of the pond area has been drawn including the embankment, so that the soil placed after excavation should not be fallen in the pond area.
- The excavation of pond has been started from edge to centre to maintain the straight line of edge throughout the pond.
- The workers have been separated as group to extract the excavation work efficiently and

	<p>effectively.</p> <ul style="list-style-type: none"> ➤ The bund slope has been maintained as 1.5: 1 as inner slope and 2:1 as outer slope. ➤ The bench of 0.5 m has been maintained throughout the pond between trench and the bund for maintenance and access to pond. ➤ The top width and bottom width have been fixed as 1 m and 1.5 m. ➤ Inlet for the pond has been fixed at one corner to allow water for fish culture from the nearby bore well. <p>By this way, the farm pond has been excavated successfully by the MGNREGS workers.</p>
Convergence (if any): <i>(minimum 50 Words)</i>	Nil
Implementing agency: <i>(minimum 50 Words)</i>	Village Panchayat /RD & PR
Outstanding contribution by individuals/functionaries (if any): <i>(minimum 50 Words)</i>	Nil
Impact:	
What are the benefits of the project and how it has changed the life of beneficiary	<p>Construction of farm pond at the field of Jayalakshmi / Seetharamanin Kandrakottaivillage creates major impact in surrounding area and to the farmers.</p> <p>The farmer has a cultivable land of about 3 acres, in which Sugarcane as perennial crops, Paddy crops have been cultivated quarterly and casuarinas have been cultivated once in 3 years. As there is no considerable income for farmers, this farm pond plays a vital role for source of income. Because,</p> <ul style="list-style-type: none"> ➤ The farm pond serves not only for water conservation, it helps for fish culture. The fishes such as Cutla, Pomfret, Greas carp (Kendai), Murrel (Viral) etc., of about 2100 nos., have been under cultivation. It will be harvested in the month of April and May. This creates extra source of income to the farmer. ➤ It collects excess runoff during rainy period. Stored water can be used for supplemental irrigation to crops.

	<ul style="list-style-type: none"> ➤ It is also useful for drinking water for cattle during drought. ➤ The excavated soil has been used to enrich soil in fields and levelling lands. ➤ Overall, the farm pond has numerous benefits which have created under MGNREGS Scheme.
<p>Interesting data representation</p>	<p>Nil</p>
<p>Before and after analysis (if any): <i>(minimum 100 Words)</i></p>	<p>Before Execution of Farm pond:</p> <ul style="list-style-type: none"> ➤ During rainy season, the runoff water has no access to store in proper manner, instead it flows outward from the field and drained to the channel. Hence, during summer season, farmer struggled for crop cultivation due to insufficient water. Without farm pond, there is no possibility of water storage and water conservation activities. <p>After the construction of Farm Pond:</p> <ul style="list-style-type: none"> ➤ As the surrounding area of the farm pond have been cleared, runoff water from the surrounding field have been drained into the farm pond during rainy season and has the capacity to store large amount of runoff water instead of flowing outwards from the field to channel. Hence, water percolated into the ground and recharged. ➤ Generally, the farm pond will be filled at least once in the season so that the farmers can use the water for critical irrigation during dry spells. ➤ As the Farm pond has been under fish cultivation, water has been retained in the pond until harvesting of fish. This increases infiltration potential which tends to increase in recharge of water accumulated in the pond. ➤ Farm pond creates an asset for the farmer and also for the village. ➤ It acts as an immediate source of income for the farmer. ➤ The livestock and cattle have been using the farm pond for drinking purposes.

Voice from the field:	
Testimonial of beneficiary(ies): <i>(minimum 50 Words)</i>	<ul style="list-style-type: none"> ➤ The Beneficiary felt happy after constructing Farm Pond under MGNREGS. The self confident on beneficiary has been improved for creating an asset. The testimonial of beneficiary to the officials and public that, ➤ Constructing farm pond under MGNREGS is a wonderful and useful asset to improve their livelihood. ➤ The Beneficiary has land of about 3 acres. In that, crops such as sugarcane, paddy and casuarinas have been cultivated. But during summer, the field has not had enough water for crops which leads to low yield. Hence farmers struggle for their income. ➤ All these have been solved by formation of farm pond by MGNREGS workers. ➤ At present, water have been stored in the pond is satisfying the need of water during drought. ➤ Hence, fund from MGNREGS has been well utilised by constructing farm pond and it created, major source of income and livelihood of the beneficiary has been increased.

High Resolution Photographs: (do not send WhatsApp photos)

- Before commencement of work
 - i) During implementation
 - ii) After completion
 - iii) Smiling beneficiary (Individual) with asset
 - iv) Photographs that show the outcome
- (with GPS coordinates – if any)*

BEFORE EXECUTION



DURING EXECUTION



DURING EXECUTION



AFTER EXECUTION



AFTER EXECUTION

AFTER EXECUTION WITH GPS CO-ORDINATES

