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ACT Internal Report

for Project 'Anantvan' 7/11/2025

Update on Plantation Progress, Onsite Update, Observations and Challenges Faced

1) Project Summary:

- a. Total Saplings Planted: 1,200**
- b. Current Survival Count: 256**
- c. Survival Rate: 21.33**
- d. Location Soil Type: Sandy**
- e. Known Water Condition: Saline content present**
- f. Key Wildlife Threats: Nilgai, monkeys**
- g. Climatic Challenges: Extreme heat**
- h. Irrigation: Timely watering**

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2) Site Preparation

a. Methodology:

- i. Digging circular pits:
- ii. Dimensions: ** 1m depth x 1m diameter
- iii. Machine Used: ** JCB
- iv. Soil Amendment Mix per pit:
- v. 20 kg mixture consisting of:
 1. Native sandy soil
 2. Organic manure
 3. Rice husk
 4. Cocopeat

b. Steps/Process:

- i. Sandy soil removed using JCB.
- ii. Mixed with manure, husk, and cocopeat.
- iii. Refilling pits with the improved soil.
- iv. Saplings planted and watered.



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3) Month of August 2025 Pictures



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Latest Pictures October 2025



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3) Challenges

a. Challenges in Soil:

- i. Sandy texture doesn't retain moisture well. – Its key to try and identify how to optimize, by either picking the right plants or by finding ways to improve soil condition. **This will be done by picking higher survival rate plants in second round of planting.**
- ii. Salt content in water may have affected root health. – For better quality of water, it would be ideal to retrieve ground water, alternatively identify methods to improve river water quality for irrigation. **Due to Monsoon we had not initiated Borewell activity, but this will be initiated and completed before 31-12-2025**

b. Plantation Details: Provides good idea of which plants are adapting to environment, identify plants that thrive in similar environment which might not have been previously planted.

SN	Plant	Planted	Survived 11/2024	Survived 08/2025	Survived 10/2025
1	Neem	20	20	15	8
2	Jamun	30	12	8	5
3	Ficus Religiosa (Peepal)	30	24	15	7
4	Mahua	30	7	5	4
5	T Arjuna	30	25	15	7
6	F Recemosa (Gular)	30	12	10	5
7	F Beghalensis (Vad)	30	21	15	10
8	Thepesia	50	25	20	10
9	Bael	50	36	25	8

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10	Kothu	50	37	25	15
11	Bakul	20	20	10	8
12	Mangifera Indica	50	5	1	1
13	Betuea Monosperma	50	45	40	20
14	Reeta	30	17	10	10
15	Amaltas	60	37	19	19
16	Pongamia Pinnata	50	43	30	15
17	Kachnar	50	26	17	13
18	Moringa Olefera	70	31	20	12
19	Tamarindus Indica	30	28	23	10
20	Pithecellobium Dulce	30	27	23	10
21	Pomegranate	10	8	6	6
22	Badam	20	4	0	0
23	Kanak Chmapa	10	9	8	6
24	Jarul	10	4	1	0
25	Gondi	10	9	7	5
26	Shehtoot	20	14	12	7
27	Curry Patta	50	23	12	5
28	Amla	10	6	3	0
29	Starfruit	10	2	0	0
30	Lemon	30	25	20	10
31	Hibiscus	30	0	0	0
32	Sitafal	30	16	9	5
33	Ocimum Basilicum	30	19	15	5
34	Falsa	50	41	37	10
	TOTAL	1200	678	476	256

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c. Plantation Numbers – Identify options and alternatives to improve survival rate

- i. Total Planted Variety 34
- ii. Survival as on October 2025 - 256
- iii. Rate of Survival October 2025 - 21.33%

d. Observed Challenges:

- i. Soil - Sandy texture leading to poor water retention despite amendments – **Identify plants that are best suited and/or ways to improve quality of soil**
Based on Available Data Plants to be planted are _____
- ii. Water - High salt content possibly hindering growth – **Possibility of exploring ground water or improving quality of water form river for regular use. Bore Well To be installed by 31/12/2025 awaiting approval from Trustees.**
- iii. Pests - Saplings damaged by Nilgai and monkeys - **Currently Fencing done for Nilgai however creating deterrence for monkeys is a challenge? - No**
Solution Identified to minimize damage Electrical Fence has been installed and is switched on regularly.
- iv. Survival - Only ~40% of saplings survived – **Survival rate has dropped further to 21.33% this is troubling but certain plants have been identified for planting with higher survival rates.**
- v. Expansion and Protection– Legal challenge for ACT to own Agricultural Land and unproductive enhances cost of conversion of Land. – **identify methodology for ACT (NGO) to own & retain agricultural land. – Meeting with Collector was rescheduled a few times but will be scheduled in December 2025 along with lawyer (who is uavailbale until end of November)**
Protection of Land –

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Survival / Mortality – Current Status:

Out of 1,200 planted saplings, only 256 have survived.

Survival rate:21%

Implication: Approximately 80% of the saplings did not survive, indicating significant challenges related to soil quality, water salinity, pests, and extreme climatic conditions. Immediate interventions are required to improve survival for future plantings.

- **Urgency in installing borewell**
- **Planting higher survival rate plants**
- **Treatment of soil based on Upaj's inputs**