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ACT Internal Report
for Project 'Anantvan'

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

1) Project Summary:

- a. Total Saplings Planted: 1,200**
- b. Current Survival Count: 476**
- c. Survival Rate: 39.7% -**
- 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) Latest Pictures



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4) 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.**
- 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**

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
1	Neem	20	20	
2	Jamun	30	12	
3	Ficus Religiosa (Peepal)	30	24	
4	Mahua	30	7	
5	T Arjuna	30	25	
6	F Recemosa (Gular)	30	12	
7	F Beghalensis (Vad)	30	21	
8	Thepesia	50	25	
9	Bael	50	36	
10	Kothu	50	37	
11	Bakul	20	20	
12	Mangifera Indica	50	5	
13	Betuea Monosperma	50	45	
14	Reeta	30	17	
15	Amaltas	60	37	
16	Pongamia Pinnata	50	43	

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17	Kachnar	50	26	
18	Moringa Olefera	70	31	
19	Tamarindus Indica	30	28	
20	Pithecellobium Dulce	30	27	
21	Pomegranate	10	8	
22	Badam	20	4	
23	Kanak Chmapa	10	9	
24	Jarul	10	4	
25	Gondi	10	9	
26	Shehtoot	20	14	
27	Curry Patta	50	23	
28	Amla	10	6	
29	Starfruit	10	2	
30	Lemon	30	25	
31	Hibiscus	30	0	
32	Sitafal	30	16	
33	Ocimum Basilicum	30	19	
34	Falsa	50	41	
	TOTAL	1200	678	476

- Details of SN 35 & 36 Pending to be retrieved asap
- Individual numbers for August still pending!

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

- i. Total Planted 10
- ii. Survival 476
- iii. Rate of Survival 39.7%

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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**
- ii. Water - High salt content possibly hindering growth – **Possibility of exploring ground water or improving quality of water form river for regular use.**
- iii. Pests - Saplings damaged by Nilgai and monkeys - **Currently Fencing done for Nilgai however creating deterrence for monkeys is a challenge?**
- iv. Climate - Extreme summer heat stressed young saplings – **Suggestions to protect plants in summer**
- v. Survival - Only ~40% of saplings survived – **Points 1-4 to improve survival rate and/or other alternatives to be discussed with experts.**
- vi. 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.** Protection of Land – **as there is expansion there are a number of challenges form pests to theft, possibility of government support in conversion to forest/reserve.**