

**Sustainable Environment & Ecological Development (SEED)**

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## **Establishing Bio-shield**

at

**Devla Village, Jambusar Taluka, Bharuch District, Gujarat**

### **Make My Trip Foundation**

19<sup>th</sup> Floor, Tower B, Building 5, DLF Cyber City, DLF Phase 2, Sector 24, Gurugram,  
Haryana, 122002, India  
Under CER

**October to December 2023**



Project Implemented by

**VIKAS**

**Centre for Development**

**ISHAVASYAM,**

Opp. Lajpatnagar Society, Eeshita Towars Road, Navjeevan, Navrangpura, Ahmedabad 380014

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## Introduction:

VIKAS Centre for Development is implementing a Mangrove Plantation Project funded by Make My Trip Foundation, on the coastal belt of Devla village of Jambusar taluka of Bharuch district.

The plantation of mangroves aims to preserve the environment by reducing soil erosion and absorb CO<sub>2</sub> as well as provide employment to *Rathods* an under privileged community in this coastal village. The plantation would be carried out in 65 Hectare area in which a total of 1,62,500 mangrove seedlings will be planted. The plantation will increase the marine life in the area through the growth of fishes and crabs in the plantation area. During the summer, the animals of the village will get green fodder through systematic cutting of the mangrove leaves.

Finally plantation will help create a Green Wall along the coastal belt which will provide protection against calamities like cyclones and tsunamis.

## Devla Site Mangrove Plantation Area Map:



Map of Devla village before plantation. A total of 1,62,500 mangrove saplings is proposed to be planted in 65 hectares of this place.

## GPS Points of Project Site



Devla-65 Ha			
No	Point No.	N	E
1	D-1592	21°59'3.10"N	72°30'19.60"E
2	D-1593	21°59'0.00"N	72°30'8.40"E
3	D-1594	21°58'39.30"N	72°30'1.50"E
4	D-1595	21°58'36.90"N	72°30'15.20"E
5	D-1596	21°58'27.50"N	72°29'58.50"E
6	D-1597	21°58'2.20"N	72°29'52.10"E
7	D-1598	21°58'0.90"N	72°30'5.80"E
8	D-1599	21°58'24.60"N	72°30'10.10"E
9	D-17	21°58'49.80"N	72°30'5.20"E
10	D-18	21°58'48.53"N	72°30'16.46"E
11	D-19	21°58'58.37"N	72°30'19.41"E

**OBJECTIVE: To do a Mangrove Plantation of 162,500 Plants at Devla Village Sea Site.**

**Programme Objectives-**

- A Green Wall will be established on the coast of Devla village.
- People will be protected against calamities like cyclone and tsunami. Also against sea salt winds and salty sand.
- Land erosion will be curbed and marine ecosystems will be enhanced.
- There will be more Fish in the area, thereby increasing livelihood of Fishermen.
- Animal Husbandry will get support through supply of green fodder from the Mangrove Plantation area during the summers.
- The Poor People working in the Mangrove Plantation will get employment.

**Work done between October and December 2023**

**Plantation Details at Devla Mangrove Plantation Project Site:**

<b>Total Plantation area (hectares)</b>	<b>Total Plantation to be done</b>	<b>Total Nursery to be prepared</b>	<b>Nursery made till date</b>	<b>Plantation through Direct Dibbling</b>	<b>Number of living plants in the nursery</b>	<b>Total Plantation done</b>
65	1,62,500 plants	1,95,000	1,96,270	40,000	1,33,227	16,832

**Status of Nursery:**

As shown in the table above, under this project nursery of 1,96,270 mangrove seedlings was established. Out of these seedlings at the end of December 1,33,227 seedlings were found alive.

**Status of Plantation:**

Further during the month of October 40,000 plants were planted through direct dibbling and 16,832 plants from nursery were planted during the month of December. Hence at the end of December totally 56,832 plants have been planted and remaining 1,05,668 plants would be planted during January and March 2024.

**The Process during the three period:**

**Plantation activity:**

- During the high tide the accretion of mud is observed over the nursery beds and in the plantation site.
- The accretion of mud is observed in small creeks.
- Gap filling in nursery was carried out by planting of propagules. Difficulty was observed in labour movement due to mud accretion and thorny plants.
- The nursery bags were disturbed due to heavy tidal waters. The beds were repaired and surrounding bunds were built.
- The plantation was carried out through direct dibbling by using about 40,000 propagules.

## **Social Processes**

- Monthly meetings of Tavar Vikas Samiti were organized for coordination of different activities. The importance of protecting environment and particularly mangroves was discussed.
- It was decided to organise the programmes after Diwali to raise awareness about environment among children.
- It was found that labourers got their payments regularly in their bank accounts.
- Totally 396 person days of work has been generated.

## **Photographs**

### **❖ Maintenance and gap filling of Nursery**



❖ **Direct dibbling of Mangrove seedling**



❖ **Road repairing**



❖ **Handmade Carts for carrying mangrove saplings from nursery to plantation area**



❖ **To take seedlings from the nursery to plantation area**



❖ **Counting of surviving Mangrove Plants**





❖ **To carry out Mangrove Plantation**



❖ **Site Visit**



❖ **Committee Meeting**



## **Case Story - I**

**A case study of a labourer working in Mangrove Nursery under the Mangrove Plantation Project of VIKAS CFD, funded by MMTF at Devla village site, Jambusar.**

**Full Name:-**Manjulaben Sureshbhai Rathod

**Age:-**45 years, **Occupation:-**Labourer

**Village:-**Nada, **Taluka:-**Jambusar, **Dist:-**Bharuch

**Number of family members:-**10 persons

Manjulaben Sureshbhai Rathod is a resident of Nada village. There are total 10 members in his family. They have no agricultural land and the house is a kuchha house (house made up of wood, mud, straw and dry leaves). They do not even do any animal husbandry work and thus they are traditionally doing casual labour work. Since agriculture in this village is rain-fed, they get two to three months of agriculture labour work in a year. The rest of the days they stay at home. Her husband Sureshbhai goes for fishing work. For household expenses and other social expenses, whenever required, they take advances from Local Farmers. They repay this money by doing labour in those Local Farmer's fields.



For the past three years, Manjulaben and her husband Sureshbhai have been working regularly in the Mangrove Plantation Project run by the VIKAS Centre for Development. In the year 2023-24 the family received Rupees thirty six thousand from the labour work that they did in the mangrove nursery preparation at Devla sea site funded by MMTF. With this money, they have bought enough groceries for their home, sufficing them two nutritious meals every day. No debt has been incurred from the local farmer/lender this year. Currently they have deposited Rs. 5,000/- savings in the bank. Not only that, but from this income they have covered the expenses incurred on children's clothes and social events. Manjulaben is also a member of the local SHG(Self Help Group) running in the village and do monthly savings.

Thus, due to this Livelihood Income of Mangrove Plantation work, their standard of living has increased; now they can buy the necessary goods at home and are able to give good education to their children.

## Case Story - II

**A case study of a labourer working in Mangrove Nursery under the Mangrove Plantation Project of VIKAS CFD, funded by MMTF at Devla village site, Jambusar.**

**Full Name:-**Kanchanben Nareshbhai Rathod  
**Age:-**35 years, **Occupation:-** Labourer  
**Village:-**Nada, **Taluka:-**Jambusar, **Dist:-**Bharuch  
**Number of family members:-**05 person



Kanchanben Nareshbhai Rathod has studied up to 10th standard. She is a resident of Nada village. There are total 05 members in her house. They have no agricultural land and the house is a kuchha house (house made up of wood, mud, straw and dry leaves). They have 10 goats in their house, doing animal husbandry activities. They work as traditional casual labourers. Since agriculture in this village is rain-fed, they get two to three months of agriculture labour work in a year. The rest of the days they stay at home. Her husband Nareshbhai goes for fishing work. Kanchanben also goes to graze goats and also does casual labour work. For household expenses and other social expenses, whenever required, they take advances from Local Farmers. They repay this money by doing labour in those Local Farmer's fields.

But for the past three years, Kanchanbenn and her husband Nareshbhai have been working regularly in the Mangrove plantation project run by the VIKAS Centre for Development. In the last one year they have been working in the Project funded by MMTF. In the year 2023-24 the family received thirty thousand rupees from the work of Mangrove Nursery at Devla sea site. With this money, they have bought enough groceries for their home, sufficing them two nutritious meals every day. No debt has been incurred from the local farmer/lender this year. Currently they have deposited Rs. 12,000/- savings in the bank.. They are going to use this money to build a shed on their house. The remaining money will be used for children's clothes and expenses incurred in social events. She is a President in the Self-Help Group in her village and writes the accounts of the SHG herself.

Thus Kanchanben, being educated, teaches her children well and wisely spends the money from her own income for the household expenses.