

# Offsetting Carbon Footprints in Southern Rajasthan

Quarter 3 Report

July – September 2022



## Executive Summary

MakeMyTrip Foundation is supporting Seva Mandir to undertake afforestation activities and offset carbon footprints. During this year, 1,00,000 saplings [40,000 (of which 8,330 saplings are already planted in the previous year) + 60,000] are targeted to be planted in the rural and tribal areas in Udaipur and Rajsamand districts of southern Rajasthan.

## Progress so far

### 1. Plantation:

The common pastureland sites were selected with the consultation of local community and village institutions i.e. Gram Vikas Samooh and respective Gram Panchayat. Regular meetings with community and Gram Vikas Samooh were conducted for planning and implementation of plantation activities at the site. Apart from these common pasturelands, the individual pasturelands/farmlands of 9 farmers were also selected and plantation was also completed under the project. The native species of multi-purpose uses were selected for plantation. The required number of saplings of selected species was procured from forest department nurseries and other private nursery growers. A proper landscape plan was followed at each site for ecological plantation of species. Thus, a total of 97,200 saplings were planted during the reporting period. The re-plantation of 5,000 saplings (as a gap filling of previous year mortality) at common pastureland was also completed during the period. Besides plantation, associated vegetative measures were also undertaken like direct tree seeding, planting branch/stump cuttings, etc. to increase vegetative cover at the sites. 21 sites of common pastureland and 2 sites of individual pastures were covered under said plantation with the following details:

**Table 1:**

S. No.	Name of District	Name of Block	No. of Sites	Area (Approx in Ha)	Plantation Status (Saplings nos.)	Remarks
1	Udaipur	Kherwara	7	79	28,180	- Protection through physical measures like loose-stone protection wall, bio-fencing, etc. completed covering an area of 362 hectares.
2		Rishabhdeo	3	74	20,990	
3		Girwa	1	7	2,500	
4		Badgaon / Gogunda	2	70	21,130	
5		Jhadol	1	17	6,800	
6	Rajsamand	Kankroli	1	19	4,000	- Soil-water/ Soil-moisture conservation measures completed at protected sites of pastureland.
7		Kumbhalgarh	6	77	9,600	
		<b>Total</b>	<b>21</b>	<b>343</b>	<b>93,200</b>	- Plantation of targeted saplings has been completed. - Assisted vegetative measures like direct tree seeding, vegetative cuttings, etc. is completed.

**Table 2:**

S. No.	Name of District	Name of Block	No. of Sites	Area (Approx in Ha)	Plantation Status (Saplings nos.)	Remarks
1	Udaipur	Kotra	1	7	2,000	Group pastures owned by 9 farmers protected and covered under plantation
2		Jhadol	1	12	2,000	
		<b>Total</b>	<b>2</b>	<b>19</b>	<b>4,000</b>	

**Table 3: List of species planted:**

S. No.	Vernacular Name	Scientific Name
1	बहेड़ा	<i>Terminalia belerica</i>
2	कीकर	<i>Pithecellobium dulce</i>
3	बांस	<i>Dendroclamus strictus</i>
4	सीताफल	<i>Annona squamosa</i>
5	बिल्व	<i>Aegle marmelos</i>
6	हवन	<i>Gmelina arborea</i>
7	बेर	<i>Zizyphus mauritioana</i>
8	खिरनी	<i>Wrightia tinctoria</i>
9	इमली / ईख	<i>Tamarindus indica</i>
10	जामुन	<i>Syzygium cumini</i>
11	सिरस	<i>Albizzia odoratissima</i>
12	कंजडी/चुरेल/बन्दर बाटी	<i>Holoptelea intergrifolia</i>
13	करंज	<i>Pongamia pinnata</i>
14	करमाला / अमलतास	<i>Cassia fistula</i>
15	खेर	<i>Acacia catechu</i>
16	महुवा	<i>Madhua indica</i>
17	नीम	<i>Azadirachta indica</i>
18	सहजन/हरेग्वो	<i>Moringa oleifera</i>
19	सागवान	<i>Tectona grandis</i>
20	अरीठा	<i>Sapindus trifoliatus</i>

**2. Protection of the Site:**

The above selected sites have been protected by loose-stone protection wall. A total area of approx 362 ha of pastureland has been covered for protection and its restoration through vegetative measures. The protection wall is also being strengthened through vegetative live fencing of Thor, Ratnajot, etc. and put over thorny bushes. The efforts of social fencing were made to mobilize local community through Gram Viksa Samooh and respective Gram Panchayat.

### 3. Capacity Building Events:

To enhance the capacity of the community and the field teams, different programmes of orientation, trainings, meetings, etc. were conducted at the field level, the details of which are:

**Table 4:**

S. No.	Date	Place	Details of Programme	Number of Participants
1	16/07/22	Chattarpura	<ul style="list-style-type: none"><li>On-site training cum demo for plantation and other vegetative measures with community and field team.</li><li>Orientation of village community for social protection and restoration of site.</li></ul>	57
2	31/08/22	Badanga		50
3	24//09/22	Razol	<ul style="list-style-type: none"><li>Orientation of village community for protection management of common pastureland.</li><li>On-site training on weeding-hoeing and soil-moisture conservation measures.</li></ul>	82
4	25/09/22	Gohodiyawada		42

### 4. Impact study- CO2 sequestration:

An impact study is planned for Carbon dioxide sequestration over afforestation measures implemented during past 10 years in southern Rajasthan. The study will cover mainly CO2 sequestration measurement over 1 million trees planted and land area regenerated through the project supports. The proposal received from technical agencies and reviewed by committee constituted. The technical agency named Fare Climate Networks (FCN) finally recommended to conduct the study through the separate project support as quoted.

### 5. GIFT-a-Tree programme:

The Gift-A-Tree project is based on a Tree Gifting app supported by MakeMyTrip Foundation and implemented by Seva Mandir. The Tree gifting app has been developed for Indian Citizens who wish to gift a tree on their life events e.g., Anniversary, Birthday, etc. A separate pilot programme is developed for funding plantation in existing operational area of Seva Mandir. The plantation has been completed as targeted of 500 saplings in selected two villages i.e. Pareda and Shishvi of the Udaipur district. 10 farmers have been selected for planting native wild species of agro-forestry an agro-horti importance on their farmland at pastures or cultivable field.

**Table 5: List of farmers:**

S.No.	Name of farmers at Location 1 (Pareda village)	Name of farmers at Location 2 (Shishvi village)
1	Mrs. Champa devi w/o Shailesh	Mr. Logra ji s/o Pema ji
2	Mrs. Babali devi w/o Ishwarlal	Mr. Kanhya lal s/o Mana ji
3	Mrs. Shaku Kunwar w/o Jawan Singh	Mr. Lal Singh s/o Vinay Singh
4	Mr. Anil s/o Babulal	Mr. Sharad s/o Kana ji
5	Mr. Jitendra Singh s/o Kalyan Singh	Mr. Lalu ji s/o Keshu ji

**Table 6 : List of species:**

S.No.	Species Name
1	Amla - <i>Phyllanthus emblica</i>
2	Baans - <i>Dendrocalamus strictus</i>
3	Ber - <i>Zizyphus mauritiana</i>
4	Sitafal - <i>Annona squamosa</i>
5	Mahuwa - <i>Madhuca indica</i>
6	Aduwa - <i>Ailanthes excelsa</i>
7	Sahejan - <i>Moringa oleifera</i>
8	Aam - <i>Mangifera indica</i>
9	Amarood - <i>Psidium guavava</i>
10	Nimbu - <i>Citrus limon</i>
11	Karanj - <i>Pongamia pinnata</i>
12	Shisham - <i>Dalbergia sisso</i>
13	Jamun - <i>Syzigium cumumi</i>
14	Neem - <i>Azadirachta indica</i>

### 3. Key Point Indicators –3<sup>rd</sup> Quarter:

**Table 7:**

S.N.	Key Project Indicators	Unit	2022				
			Achieved 1 <sup>st</sup> & 2 <sup>nd</sup> Quarter	Planning 3 <sup>rd</sup> Quarter	Achieved 3 <sup>rd</sup> Quarter	Cumulative Achievement	2022 Overall Target
1	Survey & site selection	Hectares	350	0	12	362	350*
2	Area of sites protected	Hectares	350	0	12	362	350*
3	Soil-water conservation work	Hectares	105	85	85	190	190*
4	No. of saplings planted	Numbers	0	92,000	97,200	97,200	92,000**
5	No. of capacity building programmes conducted	Numbers	4	2	4	8	8

\* Target revised as per the additional 60,000 plantation.

\*\* 32,000 + additional 60,000 plants = 92,000.

### 4. Plan for 4<sup>th</sup> Quarter:

- Survey and identification of new sites for next year plantation.
- Weeding-hoeing of the completed plantation at the sites.
- Execute Field training and regular meetings with local community, village institutions, PRIs and field team on implementation of project activities and protection management of plantation sites of the common pastureland
- Repairing and maintenance of loose-stone protection wall, live fencing, strengthen social fencing, etc.
- Engage technical agency to initiate the CO2 sequestration study.

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