

Details of Work Assigned to Gujarat Institute of Desert Ecology, Bhuj for "Greenbelt Development in Deendayal Port Authority (DPA) and its Surrounding areas (Phase III) along with two years maintenance period reg

Sr. No.	Details of Work Awarded to M/s Gujarat Institute of Desert Ecology, Bhuj .	Amount	Brief Reason
1	Greenbelt Development in Deendayal Port Authority (DPA) and its Surrounding areas (Phase III) along with two years maintenance period	Rs. 81,12,500 + applicable GST  Work order issued vide letter no CivilEngineering/pipeline/3564/GBDinDPAitssurrounding III/2024/14 dated 27/01/2025.	In order to increase the green cover and for mitigation of the pollution as per the statutory requirement and focus area implementation for the Harit Sagar Guidelines

# DEENDAYAL PORT AUTHORITY



[www.deendayalport.gov.in](http://www.deendayalport.gov.in)

Administrative Office Building  
Post Box NO. 50  
GANDHIDHAM (Kutch).  
Gujarat: 370 201.  
Fax: (02836) 220050  
Ph.: (02836) 220038

Civil Engineering/Pipeline/3564/GBDinDPA&itssurrounding III/2024/ 14

Dated: 27/01/2025

To,  
Gujarat Institute of Desert Ecology (GUIDE)  
P.O Box No. 83  
Opp Changleshwar Temple, Mundra Road,  
Bhuj (Kachchh) – 370001, Gujarat(India)  
Tel : 02832 – 329408, 235025  
E-mail: [desert\\_ecology@yahoo.com](mailto:desert_ecology@yahoo.com)

**Kind Attention:** Dr. V.Vijay Kumar, Director, GUIDE, Bhuj

**Sub:** Greenbelt Development in Deendayal Port Authority (DPA) and its Surrounding Areas (Phase III) along with two years maintenance period-reg.

**Ref.:** GUIDE, Bhuj offer vide letter no. GUIDE/DPA/GRN-Phase-III/375/2024-25 dated 12/11/2024.

Sir,

Your offer for the subject work submitted vide above referred letter dated 12/11/2024 amounting to Rs 81,12,500/- + applicable GST (Rupees Eighty-One lakhs twelve thousand and five hundred plus applicable GST), with all terms and conditions mentioned in the offer letter, has been accepted by the competent authority in Deendayal Port Authority (**Copy of offer of GUIDE, Bhuj attached**).

## **2. Scope of Work:**

The activities under the greenbelt development include; inventory of suitable sites for greenbelt development in DPA, Soil and moisture conservation and management at plantation sites, selection of suitable species of plants for plantation, procurement and plantation of plant saplings and seeds {5000 Plants (Indigenous )& 200 Plants at Gopalpuri (fruit bearing/medicinal/air purifying )}(including maintenance of the same for 1st year), along with maintenance, management and monitoring of plantation, including drip/tanker water supply for a further period of 2 years.

## **3. Obligation of DPA:**

Assistance regarding the statutory clearances from authorities concerned to be rendered by DPA for field visits/plantation activities

**4. Terms and Mode of Payment:**

- (i) First year budget requirement of Rs 39, 32,500 Lakhs (Plus GST) . In which, 50% of the project budget to be paid to GUIDE after the submission of Inception Report by GUIDE.
- (ii) 20% of the project budget to be paid to GUIDE within 15 days from the date of completion of plantation works.
- (iii) 20% of the project budget to be paid to GUIDE within 15 days from the date of submission of draft report.
- (iv) 10% of the project budget to be paid to GUIDE within 15 days from the date of submission of final report.
- (v) Annual maintenance budget from 2<sup>nd</sup> year onwards, for a period of two years would be Rs 41.80 Lakhs (plus GST).
- (vi) During the maintenance phase, 25% of the project budget to be paid to GUIDE every six months in 4 instalments with progress reports, and completion report at the end of the maintenance works.

**5. Time period :**

- (a) Plantation of 5000 (Indigenous) Saplings at DPA site and 200 (fruit bearing/medicinal/air purifying) plants at Gopalpuri, through suitable species as per the site scenario - 1 year i.e. from 1/2/2025 to 31/1/2026.
  - (b) Management and Monitoring of Plantation including drip/tanker water supply at regular interval - 2 years after completion of above 1 year period i.e. from 1/2/2026 to 31/1/2028.
6. Kindly sent the acceptance of this work order & start the work w.e.f. 01/02/2025.

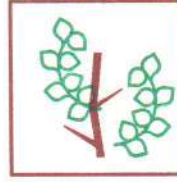
Thanking you.

Yours faithfully,



Dy. Chief Engineer & EMC(I/c)  
Deendayal Port Authority





## COMMERICAL OFFER

Consignee Address	Our Quotation Ref. No.	Date
Deendayal Port Authority (ISO 9001-2008 & 14001: 2004 certified) Administrative Office, Post Box No. 50, Gandhidham – Kachchh, Gujarat	GUIDE/Quotation/DPA/GRN/ /2024-25	12/11/2024

**Kind Attention** : Sri. Rajendra Prasad, Deputy Chief Engineer, DPA  
**Sub** : Offer for "Greenbelt Development in DPT and its surrounding areas" - Reg.,

S. No	Service Description	Total Value (In Rs.)
1.	Quotation prepared for Development of Greenbelt in DPA area and its surrounding areas. The activities under the Greenbelt development include; inventory of suitable sites for greenbelt development in DPA, Soil and moisture conservation and management at plantation sites, selection of suitable species of plants for plantation, Procurement and plantation of plant saplings and seeds (5,000 Plants & 200 Plants at Gopalpuri), along with management and monitoring of plantation, including drip/tanker water supply for a period of 2 years.	81,12,500/-
Amount (in Rs.)		81,12,500/-
Rupees in Words: Eighty-One Lakhs Twelve Thousand Five Hundred Only		
<b>Note:</b> GST Will Be Charged as an Extra.		

### Gujarat Institute of Desert Ecology (GUIDE): Scope of work

Plantation of 5000 saplings at DPA Site and 200 plants at Gopalpuri, through suitable species as per the site scenario.

Monitoring, maintenance and watering at regular intervals (drip/water tanker) for a period of 2 year.

### Deendayal Port Authority (DPA): Scope of work

Assistance regarding the statutory clearance from authorities concerned to be rendered by DPT for field visits/plantation activities.

### Terms and Mode of Payment:

1. First Year Budget Requirement of Rs. 39.32 Lakhs (plus GST). In which, 50% of the project budget to be paid to GUIDE after the submission of Inception Report by GUIDE.
2. 20% of the project budget to be paid to GUIDE within 15 days from the date of completion of plantation works.
3. 20% of the project budget to be paid to GUIDE within 15 days from the date of submission of Draft Report.
4. 10% of the project budget to be paid to GUIDE within 15 days from the date of submission of Final Completion Report.
5. Annual Maintenance Budget from 2<sup>nd</sup> Year Onwards, for a Period of Two Years Would be Rs. 41.80 Lakhs (plus GST).
6. During the Maintenance Phase, 25 % of the project budget to be paid to GUIDE Every Six Months in 4 instalments with Progress Reports, and Completion report at the End of the Maintenance Works.

Yours Sincerely,

  
Director



# **Project Proposal**

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## **Greenbelt Development in Deendayal Port Authority and its Surrounding Areas (Phase-III)**

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*Submitted to*



**The Chief Engineer  
Deendayal Port Trust  
Administrative Office Building  
Gandhidham, Kachchh, Gujarat**

*Submitted By*



**Gujarat Institute of Desert Ecology**

**P.O.Box # 83, Opp.Changleshwar Temple,**

**Baria Road, Bhuj, Kachchh-370001, Gujarat**

## **Introduction**

Green vegetation cover or Greenbelt surrounding human environment is a vital entity for supply of fresh air, food, fodder and medicine for the survival of living being. Greenbelt plays important role in maintaining ecological balance, climate regulation, biodiversity conservation, retention of soil moisture, control of soil erosion, increasing soil fertility, maintaining pleasant micro climate of the region, etc. Therefore, it is pre-requisite to develop green belts alongside of industries, mines, thermal power station, roadsides, and other development unit is to rejuvenate vital vegetation cover for safeguarding health of human and other living being. This is also an effective mechanism to counter the effect of pollution on living being.

Deendayal Port Authority (DPA) is one of the oldest and leading Port and Harbour companies in India. Its environmental protection measure is at par with the finest in the country. The DPA, since its inception, constantly promote various activities to improve the environment in and around its operational areas. In order to improve the environment and ecosystem in and around, DPA approached to Gujarat Institute of Desert Ecology (GUIDE) to develop greenbelt in suitable sites of Deendayal Port Area and its surrounding areas.

## **Aims and Objectives**

Following are the major objectives of the project:

1. To make an inventory of the sites for greenbelt development as per the DPA in an around Deendayal Port Authority area.
2. Soil conservation and management in selected sites.
3. Identification of suitable species of plants for plantation.
4. Procurement and plantation of plant saplings.
5. Plantation management and monitoring

## **Project Activities**

Entire green belt development project will be carried out in phase wise manner. During the first phase 5000 plants have been planted under the greenbelt development. More than 10,000 plants have been planted during the 2<sup>nd</sup> phase at RoB and opposite 15<sup>th</sup> & 16<sup>th</sup> Births along the wall.

In continuation, as Phase-III, a total of 5000 plants in the DPA area and 200 plants especially horticulture and medicinal plants in Gopalpuri area with appropriate fencing is planted by the Deendayal Port Authority, Gandhidham. The project proposal is for the Phase-III plantation activities and the details are as follows:

**Mapping and Designing of the Site:** The plantation site will be identified along with the officials of DPA, Gandhidham and will be demarcated for plantation will be carried out in that area.

**Site Preparation:**It includes preparation of soil by ploughing and use of organic fertilizer, digging out of pits, irrigation,etc.

**Procurement and Plantation of Planting Material:** The planting materials include various suitable species as per the site condition will be procured from various nurseries of Forest Department and private nurseries. The planting materials will be seed or saplings of identified species. The sapling of various plant species will be planted as per the demarcation of plots in the Phase III.

**1.1 Selection of Plant Species for Plantation:** Various plant species will be selected for plantation in suitable areas. The plant species such as *casuarina equisetifolia*, *Thespesia populnea*, *Peltophorumpterocarpum*, *Mimusopselengi*, *Terminalia catappa*, *Azadirachta indica*, *Millettia pinnata*, *Leucaena leucocephala*, *Prosopis cineraria*, *Accacia nilotica*, *ConocarpusLancifolius*etc. will be planted. A tentative list of plant species to be planted is enclosed in the Annexure 1.

**Management and Monitoring of Greenbelt:** The plantation within identified site will be managed and monitored for a period of 2 years. The management of plantation includes irrigation of the plantation at regular intervals (Monsoon: once in a week; winter: Twice in a week; summer: alternate days) for the whole project period and also gap filling wherever required.

## Budget Estimate

**Project Title: Greenbelt Development at Deendayal Port Trust Area, Kachchh, Phase III**

### A. Project Duration: 1Year (5,000 Plants)

Sl. No.	Activity	Description	Unit	Amount (in Rs)
1	Plantation	Pit Preparation (Including Manure/Soil)	Rs. 200/pit X 5,000 (2 ft x2 ft.)	10,00,000
2		Saplings Cost	Rs.80x 5000	4,00,000
3		Transport Cost	Rs.10x 5,000	50,000
4		Planting Cost	Rs. 10x5,000	50,000
5	Maintenance cost	Management and Monitoring (Expert Consultation/Travelling)	Rs. 50,000/ 12 Months	6,00,000
		Water supply through Tanker for One Year (12Months)		12,50,000
			<b>Sub-total</b>	<b>33,50,000</b>
6	Institutional Charge	@10% of the total		3,35,000
			<b>Grand Total</b>	<b>36,85,000</b>

(Plantation cost per plant- Rs. 300/)

### B. Budget for Plantation of 200 Plants at Gopalpuri (Medicinal, Horticulture Plants, Etc.)

#### Project Duration: 1 Year (200 Plants)

Activity	Description	Unit	Amount (in Rs)
Plant Saplings Cost	Cost of 250 Plants (Horticulture/Medicinal/Air Purifying and Oxygen Bearing Plants, Etc.)	Rs. 300/x200	60,000
Plantation	Pits, and Plantation with Manure, Plantations, and, including a Labor for regular maintenances.	Rs.200/x200 Labore charge Rs.500/day for 100 days	40,000
Maintenance cost	Fencing with Gate	Lumsum	50,000
	Drip System	Lumsum	75,000
		<b>Sub-total</b>	<b>2,25,000</b>
Institutional Charge	@10% of the total		22,500.00
		<b>Grand Total</b>	<b>2,47,500</b>



**C. Budget for Maintenance**

**Project Duration: 2 years**

Sr. No.	Activity	Unit	Amount (in Rs)
1	Management and Monitoring (Expert, Consultation, /Travelling for 24 Months)	@ Rs. 50,000/month	12,00,000
2	Water supply through Tanker for two years	@ Rs.12.50 lakhs/year	25,00,000
3	Gap Filling	@ Rs. 50,000/year	1,00,000
	<b>Sub total</b>		<b>38,00,000</b>
	<b>Intuitional Charge</b>	@ 10% of the total	<b>3,80,000</b>
	<b>Grand total</b>		<b>41,80,000</b>

**The total cost of the project =A+B+C= 81,12,500 (Rupees Eighty-one lakhs twelve Thousand Five Hundred only)**

Date: 13/11/2024

Place: Bhub

  
Signature



## Annexure I

### Plant Species to Be Planted in the Greenbelt Development (5000 plants)

Sl. No.	Category	Scientific Name	Local Name
1	Tree	<i>Azadirachta indica</i>	Limbo
2		<i>Delonix regia</i>	Gulmahor
3		<i>Tamarindus indicus</i>	Khathi Ambli
4		<i>Pithecellobium dulce</i>	Mithi Ambli
5		<i>Albizia lebeck</i>	Siras
6		<i>Casuarina equisetifolia</i>	Sharu
7		<i>Alstonia scholaris L.</i>	Saptparni
8		<i>Terminalia catta</i>	Badam
9		<i>Peltophorum ferrugineum</i>	Peltophorum
10		<i>Prosopis cineraria</i>	Khijdo
11		<i>Acacia nilotica</i>	Deshi Baval
12		<i>Cordia gharaf</i>	Gunda
13		<i>Ficus glomerata</i>	Umerdo
14		<i>Salvadora persica</i>	Khari pilu
15		<i>Thespesia populnea</i>	Paras Piplo
16		<i>Conocarpus lancifolius</i>	
<b>List of the Plants for Greenbelt-DPA (200) at Gopalpuri</b>			
1	Tree	<i>Azadirachta indica</i>	Limbo
2	Tree	<i>Terminalia arjuna</i>	Arjun
3	Tree	<i>Moringa oleifera</i>	Sargvo
4	Shrub	<i>Commiphora wightii</i>	Guggal
5	Shrub	<i>Adhatoda vasika</i>	Ardusi
6	Climber	<i>Tinospora cordifolia</i>	Galo
7	Shrub	<i>Lawsonia inermis</i>	Menhdi
8	Tree	<i>Cassia fistula</i>	Garmalo
9	Tree	<i>Bahunia purpurea</i>	Ashitro
10	Tree	<i>Mimusopus elengi</i>	Borsalli
11	Shrub	<i>Mauraya koenigi</i>	Mitholimdo
12	Shrub	<i>Commiphora stocksiana</i>	MithoGuggal
13	Tree	<i>Pithecellobium dulce</i>	Mithi Ambli
14	Tree	<i>Syzygium cumini</i>	Jambu
15	Tree	<i>Mangifera indica</i>	Ambo
16	Tree	<i>Aegle marmelos</i>	Bili
17	Shrub	<i>Achros zepota</i>	Chiku
18	Shrub	<i>Citrus lemon</i>	Limbu
19	Tree	<i>Limonia acidissima</i>	Kothu
20	Shrub	<i>Nyctanthes arbor-tristis</i>	Parijat
21	Shrub	<i>Hibiscus roosasinensis</i>	Jasud
22	Tree	<i>Emblica officinalis</i>	Amada
23	Shrub	<i>Punica granatum</i>	Dadam
24	Shrub	<i>Psidium guajava</i>	Jamfad
25	Shrub	<i>Annona squamosa</i>	Sitafal

**Note:** Suitable Plant Species as Per the Availability will be Selected for Plantation from the Above List.