

DEENDAYAL PORT AUTHORITY
(Erstwhile: DEENDAYAL PORT TRUST)



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

www.deendayalport.gov.in

EG/WK/5202 (D)/ Part (CRZ 2)/ 28

Dated: 12 /02/2025

To,
The Director (Env.) & Member Secretary,
Forest & Environment Department,
Govt. of Gujarat,
Gujarat Coastal Zone Management Authority,
Block No.14, 8th floor, New Sachivalaya,
Gandhinagar - 382 010

Sub: Single Point Mooring (SPM) and allied facilities off Veera in Gulf of Kutch for handling crude oil on BOT basis in the state of Gujarat by M/s. Kandla Port Trust (Now Deendayal Port Authority)- **Six monthly compliance report of conditions stipulated in CRZ Recommendations reg.**

- Ref.:**
1. Letter No. ENV-10-2011-1883-E dated 24/05/2012 of Director (Environment) & Additional Secretary, Forest & Environment Department, GoG.
 2. DPT letter No. EG/WK/4712/Part I/1164 dated 06/06/2013
 3. DPT letter No. EG/WK/4712/Part I/1164 dated 04/01/2014
 4. DPT letter No. EG/WK/4712/Part I/128 dated 15/05/2014
 5. DPT letter No. EG/WK/4712/Part I/226 dated 15/10/2014
 6. DPT letter No. EG/WK/4712/Part I/227 dated 06/05/2015
 7. DPT letter No. EG/WK/4712/Part I/165 dated 15/10/2015
 8. DPT letter No. EG/WK/4712/Part I/130 dated 09/05/2016
 9. DPT letter No. EG/WK/4712(EC)/Part I/128 dated 08/12/2016
 10. DPT letter No. EG/WK/4712(EC)/Part I/233 dated 28/06/2017
 11. DPT letter No. EG/WK/4712(EC)/Part II/601 dated 12/12/2017
 12. DPT letter No. EG/WK/4712(EC)/Part II/286 dated 08/06/2018
 13. DPT letter No. EG/WK/4712(EC)/Part II/10 dated 15/02/2020
 14. DPT letter No. EG/WK/4712/EC/Part II/40 dated 12/11/2020
 15. DPT letter No. EG/WK/4712/EC/Part II/152 dated 12/07/2021
 16. DPA letter No. EG/WK/(D) Part (CRZ 2) /134-1 dated 01/02/2022
 17. DPA letter No. EG/WK/(D) Part (CRZ 2)/126 dated 30/06/2022
 18. DPA letter No. EG/WK/5202 (D)/Part (CRZ 2)/228 dated 01/02/2023
 19. DPA letter No. EG/WK/5202 (D)/Part (CRZ 2)/345 dated 04/08/2023
 20. DPA letter No. EG/WK/5202 (D)/Part (CRZ 2)/12 dated 10/01/2024
 21. DPA letter No. EG/WK/5202 (D)/Part (CRZ 2)/124 dated 30/08/2024

Sir,

Kindly refer above-cited references for the said subject.

In this connection, it is to state that the Gujarat Coastal Zone Management Authority, vide the above-referred letter dated 24/05/2012, had recommended Deendayal Port Authority the subject project.

.....cont.....

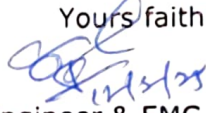
Subsequently, the MoEF&CC, GoI, had accorded the Environmental & CRZ Clearance vide letter dated 11/12/2013 for the subject project. Subsequently, MoEF&CC extended the validity of the Environmental Clearance till 10/12/2023.

Now, as directed under Specific Condition No. 26 mentioned in the CRZ Clearance letter dated 25/05/2012, i.e. **A six-monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by the DPT on a regular basis to this Department and MoEF&CC, GoI**, please find enclosed herewith point-wise compliances of the conditions stipulated in CRZ recommendations issued by GCZMA vide letter dated 24/05/2012 along with necessary annexures (**Annexure 1**) for the period up to September, 2024 for kind information & record please.

Further, as per the MoEF&CC, Notification S.O.5845 (E) dated 26.11.2018, in which it is mentioned that, **"In the said notification, in paragraph 10, in sub-paragraph (ii), for the words "hard and soft copies" the words "soft copy" shall be substituted"**. Accordingly, we are submitting herewith a soft copy of the same via e-mail in ID gczma.crz@gmail.com & direnv@gujarat.gov.in.

This has the approval of Chief Engineer, Deendayal Port Authority.

Yours faithfully,


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

Encl.: as above

Copy to:-

Shri Amardeep Raju, MoEF&CC, GoI
Scientist E, Ministry of Environment, Forest and Climate Change,
& Member Secretary (EAC-Infra.1),
Indira Paryavaran Bhavan,
3rd Floor, Vayu Wing, Jor Bagh Road, Aliganj,
New Delhi-110003.
Email ID: ad.raju@nic.in

Annexure -1

Annexure 1

Compliance Report for the period up to September, 2024

Subject: Point-wise Compliance of the conditions stipulated in CRZ recommendation granted by Forest & Environment Department, GoG for the project "Single Point Mooring (SPM) and allied facilities off Veera in Gulf of Kutch for handling crude oil on BOT basis in the state of Gujarat by M/s. Kandla Port trust".

Ref No : CRZ recommendations issued vide letter No. ENV-10-2011-1883-E dated 24/05/2012 for the subject project.

S. No.	CRZ Conditions	Compliance Status
SPECIFIC CONDITIONS		
I	The DPT shall strictly adhere to the provisions of the CRZ Notification, 2011, issued by the Ministry of Environment, Forests and Climate Change, Government of India	It is assured that the provisions of the CRZ Notification, 2011 shall be strictly adhered to by DPA.
II	The COT shall be outside the CRZ areas as submitted by the KPT.	No activity has started yet.
III	The KPT shall obtain all necessary permissions from different Government Departments/Agencies before commissioning their activities.	No activity has started yet. However, it is relevant to mention that, DPA had already obtained CTE/NOC from GPCB vide letter No. PC/ CCA – KUTCH – 971/ GPCB ID: 36299/ 106252 dated 06/03/2012 and GPCB further extended the CTE validity vide Order dated 02/03/2017.
IV	No dredging, reclamation and construction activities shall be carried out in the CRZ area categorised as CRZ I (A), and it shall have to be ensured that the mangrove habitats and other ecologically important and significant areas, if any, in the region are not affected due to any of the project activities	No activity has started yet.
V	The KPT shall be held responsible for any accidental oil spill, if takes place due to rupture/damage of pipelines and the KPT shall bear the total cost for remedial measures and restoring the original environment in the area.	No activity has started yet.
VI	No effluent or sewage shall be discharged into the sea/creek or in the CRZ area and shall be treated to conform to the norms prescribed by the Gujarat Pollution Control Board and would be	No activity has started yet.

S. No.	CRZ Conditions	Compliance Status
	reused/recycled within the plant premises to extract possible.	
VII	The KPT shall prepare and regularly update their Local Oil Spill Contingency and Disaster Management Plan in consonance with the National Oil Spill and Disaster Contingency Plan and shall submit the same to this department after having it vetted through the Indian coast guard.	No activity has started yet. It is relevant to mention that, DPA already has Oil Spill Contingency and Disaster Management Plan.
VIII	No ground water shall be tapped to meet with the water requirements during the construction and/or operation phases.	No activity has started yet.
IX	The KPT shall contribute towards the cost of any common study that may be carried out for the KPT region for environmental protection and management issues.	Point noted
X	The KPT shall implement all the suggestions/recommendations given by the NIO in the marine rapid EIA report.	No activity has started yet.
XI	The KPT shall strictly comply with all the conditions stipulated by the Gujarat Pollution Control Board in its consent to establish (NOC) and the CCA	No activity has started yet.
XII	The KPT shall bear the cost of the external agency that may be appointed by this department for supervision/monitoring of proposed activities and the environmental impacts of the proposed activities.	DPA/successful bidders will bear the cost of external agencies that may appoint by the Department for supervision/monitoring of proposed activities and the environmental impact of proposed activities.
XIII	The KPT shall take up mangrove plantation in an area of 50 Ha. as well as greenbelt development with the Gujarat ecology commission/forest department.	As a part of mangrove conservation, DPA has undertaken Mangrove Plantation in an area of 1600 Hectares at various locations since 2005-06 under the directions of the GCZMA and MoEF&CC, GoI. Further DPA has assigned work to to M/s GUIDE, Bhuj vide work order dated 10/06/2024 for "Mangrove Plantation in an area of 50 Ha for Deendayal Port Authority" for the period of 10/06/2024 to 09/03/2025. The work order has been submitted along with last compliance report.

S. No.	CRZ Conditions	Compliance Status
		<p>DPA had entrusted the work to Forest Department, Gujarat for developing a greenbelt in and around the Port area at a cost of Rs. 352 lakhs in an area of about 32 hectares and the work is already completed.</p> <p>Further, DPA has appointed the Gujarat Institute of Desert Ecology (GUIDE) for "Green belt development in Deendayal Port Authority and its Surrounding Areas, Charcoal site' (Phase-I)" vide Work Order No.EG/WK/4757/Part [Greenbelt GUIDE], dated 31st May 2022. The final report has already been communicated with the earlier compliance report.</p> <p>DPA has assigned the Greenbelt development in Deendayal Port Authority and its surrounding areas, Phase II, to M/s GUIDE vide Work order EG/WK/4751/Part (Greenbelt)/327 dated 23.06.2023. The work has been completed and the Final report submitted by M/s GUIDE, Bhuj, is attached herewith as Annexure 1.</p>
XIV	The construction camps shall be located outside the CRZ area and the construction labour shall be provided with the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by the construction labours.	No activity has started yet.
XV	The KPT shall have to contribute finically for taking up the socio-economic up-lifting activities in this region in consultation with the forest and environment department and the district collector/district development officer.	CSR activities are being attended by DPA. Copy of the activities undertaken by DPA as a part of CSR is enclosed as Annexure 2.
XVI	A separate budget shall be earmarked for environmental management and socio-economic activities and details there of shall be furnished to this department as well as to the MoEF, GOI. The details with	The allocation made under the scheme of "Environmental Services & Clearance thereof other related Expenditure" during BE 2024-25 is Rs. 657 Lakhs.

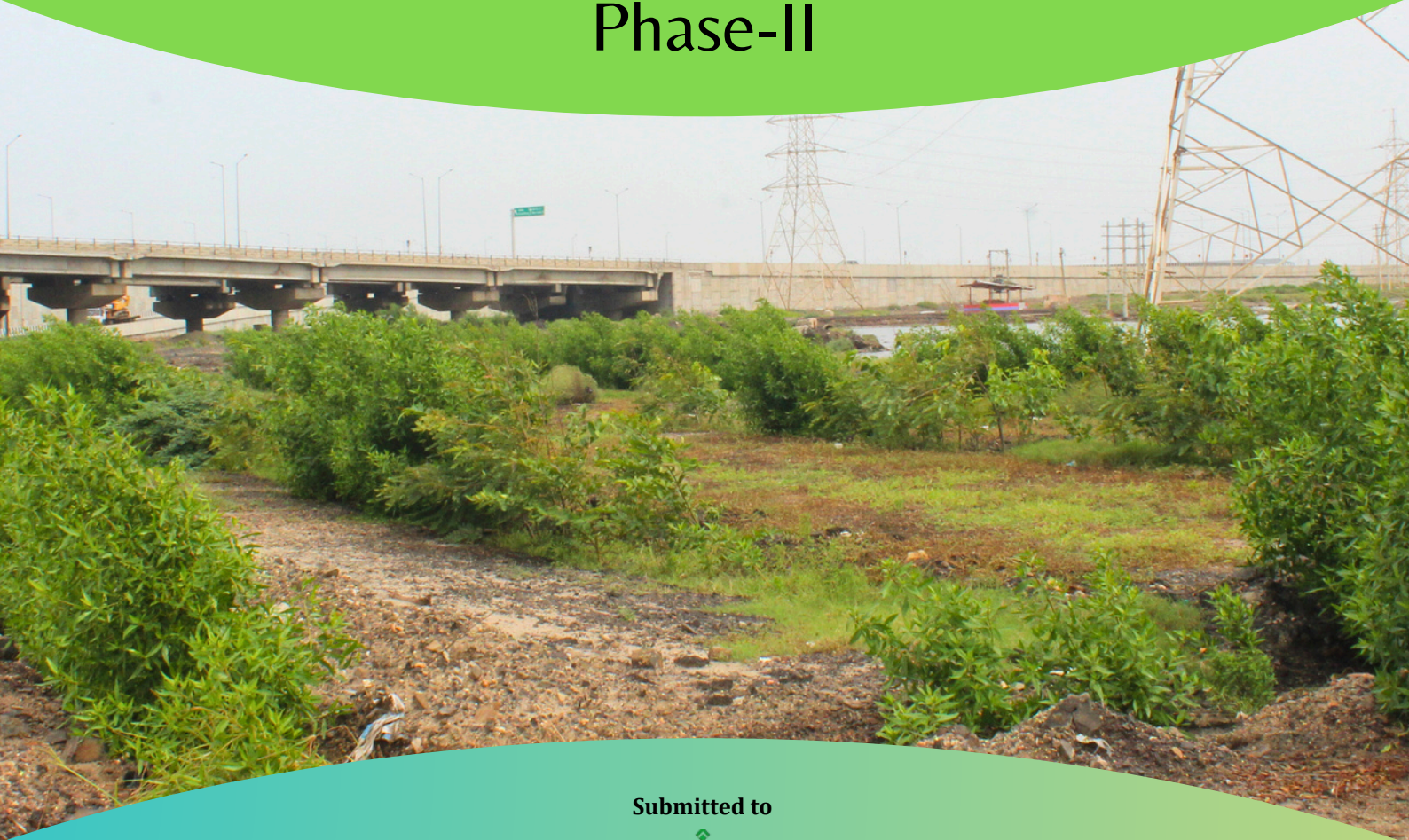
S. No.	CRZ Conditions	Compliance Status
	respect to the expenditure from this budget head shall also be furnished.	
XVII	A separate environmental management cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project.	<p>DPA already has an Environment Management Cell. Further, DPA has also appointed an expert agency to provide Environmental Experts from time to time. Recently, DPA appointed M/s Precitech Laboratories, Vapi vide work order dated 5/2/2021 <u>(A copy of the Office order & Scope is shared with earlier compliance)</u></p> <p>Further, DPA has appointed Manager Environment on a contractual basis for a period of 3yrs, further extended upto 2 years <u>(A copy of the Office order is shared with earlier compliance)</u></p>
XVIII	An environmental report indicating the changes, if any, with respect to the baseline environmental quality in the coastal and marine environment shall be submitted every year by the KPT to this department as well as to MoEF, GOI	No activity has started yet.
XIX	A six-monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by the KPT on a regular basis to this department/MoEF, GOI	DPA has been submitting six monthly compliance reports vide referred letters dated 06/06/2013, 04/01/2014, 15/10/2014, 06/05/2015, 15/10/2015, 09/05/2016, 28/06/2017 04/12/2017, 12/11/2020, 12/07/2021 01/02/2022, 30/06/2022, 01/02/2023, 04/08/2023, 10/01/2024 and 30/08/2024 to MoEF&CC, GoI
XX	Any other conditions that may be stipulated by this department from time to time for environmental protection/management purpose shall also have to be complied with the KPT.	DPA/Successful bidder will comply with any other condition that may be stipulated by Forest and Environment Department, GoG from time to time for environmental protection/ management purposes.

Annexure -1

Final Report

on

Greenbelt Development in Deendayal Port Authority and its surrounding areas, Kandla Port Phase-II



Submitted to



Deendayal Port Authority
Administrative Office Building
Post Box No.50, Gandhidham (Kachchh)
Gujarat-370201

Submitted by



Gujarat Institute of Desert Ecology
Opp. Changleshwar Temple,
Mundra Road, Bhuj-370 001,
Kachchh, Gujarat
www.gujaratdesertecology.com

Final Report

on

Greenbelt Development in Deendayal Port Authority and its
surrounding areas (Phase-II) Kandla Port

Co-ordinator

Dr. V. Vijay Kumar, *Director*

Principal Investigator

Dr. Jayesh B. Bhatt, *Scientist*

Co-Principal Investigator

Mr. Bhagirath Paradva, *Project Fellow*

Mr. Rakesh Popatani, *Project Fellow*

Team Member

Mr. Vivek Chauhan, *Project Assistant-I*

Mr. Ajay Gohel, *Project Fellow*

Submitted by



Gujarat Institute of Desert Ecology

Opp. Changleshwer Temple, Mundra Road

Bhuj-370 001, Kachchh, Gujarat

www.gujaratdesertecology.com

Content

Title	Page No
Introduction	1
Rationale	3
Project Site	5
Scope of Work	7
Approach and Methodology for Greenbelt Development	7
Plantation techniques	8
Selection of plant species for plantation	9
Number of saplings	9
Management and Monitoring of Greenbelt	9
Time Schedule for Water	11
Annexure-I	12

Introduction

The Greenbelt cover/forest has been the utmost necessity for the survival of human as well as for the wildlife with the current scenario of human explosion, industrial development and climate change. The greenbelt cover provides ecological services such as purifying air, reduce soil erosion, improving ground water table, reduce salinity. In addition, it also caters the services such as food, fodder and medicine, etc. along with playing a very vital role in providing habitats for wildlife and maintaining ecological balance, climate regulation, biodiversity conservation and maintaining pleasant micro climate of the region. Thus, green belt offers a number of benefits for population. Moreover, vegetation absorbs various pollutants from the environment and thus helps in effective pollution control. However, due to the various types and extent of economic development like industrialization, mining, infrastructural development, etc. has exerted pressure in reducing and fragmenting natural vegetation cover day-by day all over the world.

The infrastructural and industrial development leads to influence the life of all the living organisms in two directions: either upwards or downwards. In the upward mode, human being gets opportunities for luxuriant life with easy accessibility to the resources while in downward, the quality of ecosystem services gets affected. Most of the industrial and infra-structural developmental activities generate pollution of one or other types with varying magnitudes, which makes susceptible to all the organisms, nevertheless, the pre-eminence of resistance of each of the organisms helps themselves to overcome the hazards caused by such pollutants.

Therefore, the general concept of green belt has evolved in recent years to develop vegetations or green spaces alongside of industries, mines, thermal power station, roadsides, and other development units is an effective mechanism to rejuvenate the environment through vital vegetation cover that safeguard the health of human and other living organisms. Green belts in and around urban and industrial areas are important to the ecological health of any given region. Greenbelt is the plantation of trees along the industrial units, mines, roadside for reducing the pollution originating from these operations (Flemming, 1967; Hanson and Throne, 1970; Warren, 1973; Ganguly, 1976). Greenbelt has been developed in view of the following factors; (i) physical characteristics

of the green belt eg. Distance from the source, width, and height and leaf surface area density (ii) aerodynamic properties eg. Wind speed through greenbelt and effective height of the incident air stream (iii) deposition velocity of the pollutant and (iv) atmospheric stability conditions (CPCB, 2000).

As per the National Forest Policy (NFP-1988), it is necessary to encourage the planting of trees alongside of roads, railway lines, rivers and streams and canals, and on other unutilized lands under state/corporate, institutional or private ownership. NFP give emphasis on the green belt developments. It says – Green belts should be raised in urban/industrial areas as well as in arid tracts. Such a programme will help to check erosion and desertification as well as improve the microclimate.

Green infrastructure serves to provide an ecological framework for social, economic and environmental health of the surroundings. The main components of this approach include storm water management, climate adaptation, less heat stress, more biodiversity, food production, better air quality, sustainable energy production, clean water and healthy soils, as well as the more anthropocentric functions such as increased quality of life through recreation and providing shade and shelter in and around infrastructure and industrial areas. Green infrastructure is thought to be effective in such scenarios, where green plants from a surface capable of absorbing air pollutants and act as a sink for pollutants. Leaves with their vast leaf area in the tree canopy, absorb pollutants on their surface. Thus, effectively reduce their concentrations in the ambient air. Often the absorbed pollutants are incorporated in metallic streams and thus the air is purified. Plants grown in such a way as to function as pollutant sinks are collectively referred to as green infrastructure or green belts. Apart from functioning as a pollutant sink, green belts would also provide other benefits like aesthetic improvement and providing possible habitats for birds and animals along with maintain the soil moisture regime with the soil microorganisms and improve the Soil quality and ground water recharge. The greenbelts have helps in improving the ecology, maintenance of biodiversity, mitigation of dust pollution and fugitive emission, control of noise pollution, provide fresh air, increasing aesthetic values of an area and overall improvement of the landscape.

Rationale

Deendayal Port in Kachchh District of Gujarat State (formerly Kandla Port Trust), operated by Deendayal Port Authority (DPA), is a gateway Port to the hinterland in the western and northern states of India. It is one of the 11 major Ports of India situated at 22°59'39.77" N latitude and; 70°13'20.14" E longitude on Kandla creek at Gulf of Kachchh. The inclusion of Karachi Port in Pakistan after India's partition and heavy traffic congestion at the then Bombay Port gave impetus for promoting Deendayal Port during the year 1950s. In 1955, Deendayal Port acquired the status of a major Port in India. Because of its proximity to the Gulf countries, large quantities of crude petroleum and other assorted cargo are imported through Deendayal Port. The Port presently has 14 jetties, six oil terminals, and several allied facilities for handling dry and liquid cargo. Regular expansion/developmental activities such as the addition of jetties, allied Special Economic Zones (SEZ hereafter), industrial parks and ship bunkering facilities are underway to cope with the increasing cargo handling demands. Shri Mansukh Mandaviya, Minister of State for Ports, Shipping and Waterways (I/C) appreciated the efforts taken by Deendayal Port and added that it is indeed the major achievements in the challenging (COVID) times and it is significant indication that economy is bouncing back to achieve pre-COVID times.

Major commodities handled by the Deendayal Port are Crude Oil, Petroleum product, Coal, Salt, Edible Oil, Fertilizer, Sugar, Timber, Soya bean, Wheat. This major achievement can be attributed to the user-friendly approach of port with the Shipping fraternity / stakeholders and constant consultations with them to improve ease of doing business. An assortment of liquid and dry cargo is being handled at Deendayal Port. The dry cargo includes fertilizers, iron scrap, steel, food grain, metal products, ores, cement, coal, machinery, sugar, wooden logs, salt extractions, etc. The liquid cargo includes edible oil, crude oil and other petroleum products. DPA created a new record by handling 127.10 million metric tons of cargo during FY 2021-22 compared to 117.566 MMT in FY 2020-21, with a growth of 8.11%. Incidentally, DPA is the only major Indian Port to handle more than 127 MMT cargo throughput, and it has also registered as the highest cargo throughput in its history. The Port has handled 3151 vessels during FY 2021-22 compared to 3095 vessels in FY 2019-20. While the Port has flagged off several projects related to infrastructure creation, DPA has successfully awarded the work of

augmentation of Liquid cargo handling capacity by revamping the existing pipeline network at the oil jetty area in September 2021. Deendayal Port is a natural harbour located on the eastern bank of North-South trending Kandla creek at an aerial distance of 145 km from the Gulf's mouth.

Being located at the inner end of the Gulf of Kachchh (GoK), Deendayal Port has a marine ecosystem with a vast expanse of mangroves, creek systems and allied biota. The Port location is marked by a network of major and minor mangrove-lined creek systems. The coastal belt in and around the Port has an irregular and dissected configuration.

There are no perennial or seasonal rivers in Gandhidham taluka where the port is located. Total rainy days during the monsoon season is limited to only 15-20 days and used to be erratic. Freshwater input into the near coastal waters is relatively meagre and appears to have less influence on the ambient coastal water quality except during monsoon months, during which freshwater through flash floods get discharged in the near coastal waters. The annual average humidity is 60%, which increases to 80% during the southwest monsoon (June to September) and decreases to 50% during the months of November and December. The drought phenomenon is common with two drought years in a cycle of 5 years.

The coastal belt in and around the Kandla region is characterized by a network of creek systems and covered by sparse halophytic vegetation, creek water and salt-encrusted land mass, which forms the major land forms. The surrounding environment in a radius of 10 km from the Port is mostly built-up areas consisting of salt works, human habitations and Port related structures on the west and north, creek system, mangrove formations on the east and south. The Deendayal Port and its surroundings have mangroves and creek systems as major ecological entities.

DPA is committed towards environment protection since its establishment and has taken many initiatives towards increasing green cover and greenbelt development in various areas under DPA through intensive plantation activities and developing greenbelt around its established port and jetty areas and human habitations.

In order to enhance and strengthen Greenbelt Development, the DPA has approached GUIDE to develop the greenbelt area within the port area in phase wise manner and raised 5000 plants at a suitable site during the first phase (2022-23). In continuation,

10,000 plants have been finalized during the 2nd phase 2023-24 and 800 plants as a deficient of first phase.

GUIDE team has visited the proposed Greenbelt development site at Kandla port with the officials from Kandla Port as part of selection of suitable and available locations for green belt development. Based on the observation of the project site and its landscape, environment and ecology of the area, suitable plant species for such area was worked out in order to improve the local environment and for the Greenbelt development at the port area.

Project Site

Based on observation made by the GUIDE Team and Officials from Deendayal Port Authority, a site at RoB and another site opposite to 15-16th Birth along the wall have been selected on the peripheral boundary of two sites.



Fig. 1 Map of Plantation Area RoB

The area proposed for green development of Deendayal Port is barren land without any vegetation. The soil of the area is black muddy and is high saline soil and with saline ground water. The area is very dry and hot during the summer. The highest temperature in Kandla is used to be recorded in this area.



Fig. 2 Map of Plantation Area 15-16 Birth Opp: Wall



Fig. 3 Map of Plantation Area 15-16 Birth Opp: Wall

Scope of Works

The overall objective is to Development Greenbelt at Deendayal Port. The following activities of the Greenbelt development have been carried out:

1. To make an inventory of suitable sites for greenbelt development in and around the Deendayal Port at Kandla.
2. To carryout Soil and Moisture Conservation (SMC) of the selected sites.
3. Identification of suitable species of plants as per site scenario for the greenbelt plantation.
4. Adopting plantation technique and soil/manure amendments.
5. Regular monitoring (survival and growth) of the plantation.
6. Suggest measures for management and improvement of the greenbelt.

Approach and Methodology for Greenbelt Development

Following steps have been adopted for greenbelt development:

- Removal of exotic/unwanted plants plant species from the entire area demarcated for green belt development: The entire selected site has been cleared by removing unwanted weeds and material such as stones, plastics etc.by JCB and also with the help of labor forces.
- Landscaping of the area and land preparation Trench line of 2.5x 2.5 ft. have been dig out through JCB at RoB site and another site opposite to 15-16th Birth along the wall.
- Soil and moisture conservation work since the port area is highly saline, SMC work was very much essential for better survival of the plants. Agriculture fertile soil have been added in appropriate quantity.
- Identification of native species of plants for plantation in greenbelt as per the site suitability the site was very challenging for greenbelt development since the water and soil is highly saline with the extreme climatic condition, the selection of plant species for plantation has been made very carefully. 40 % of plants have been selected as native species for plantation where as 60% species of *Conocarpus* depends on high salinity level of the soil of the area.

- Procurement of sapling of identified species or Nursery management or seeding of tree/shrub species all the saplings were procured where of 3-4 ft. in height from reliable nursery. All saplings were of tree species.
- Installation of drip irrigation facilities was not feasible therefore activity was planned preferably through tankers. The watering of the plantation has been scheduled as per the seasons which is given in table. Regular watering as per the scheduled have been provided by the water tanker under the supervision of team expert
- Use of Manure, preferably organic fertilizer for enhancing soil fertility best quality organic manure have been provided to the saplings for better growth and survival. Weed management and trench repairing have been carried out periodically also as and when it required.
- Regular monitoring and management of the saplings by a qualified team from GUIDE the selected. The regular visit to the site has been made for monitoring and clearing the road for water tanker for irrigation. Gap fillings was also made during the period.

Plantation Techniques:

- Site development for a plantation includes clearance for weeds and it involves, bush cutting, soil and moisture conservation works and marking of pits for planting of saplings etc.
- After clearing the land sites for digging of pits, plantation have been marked on ground using a measuring tape to ensure the desired spacing.
- Pits of the size 45 cm x 45 cm and 45 cm depth have been dug for tree plantation. Pits have been deep enough to ensure that the roots of the plants do not curl up once the planting material is placed in it.
- Since the soil is highly saline, a fertile soil around 10 dumpers have been added for better survival of plants
- Organic manure has been added for better growth and survival.
- The pit has been filled a little above the ground level so that after the earth settles the upper surface of the pit is level to the ground thus avoiding any water logging.
- The plantation has been carried out in two phases

- Around 4000 saplings have been planted during the first phase at available plantation area at RoB site.
- Around 4500 saplings have been planted during the first phase at available plantation area at opposite 15-16th Birth along the wall.
- The remaining 2500 saplings have been planted at opposite 15-16th Birth along the wall. Thus, a total of 11000 plantations have been completed at the end of the project.
- Along with the above, gap filling of 2500 plants were carried out in both the sites, thus covering a total of 13,500 plants have been planted to achieve the target of 11,000 plants.
- The assessment on survival of plants have been carried out during the 2nd week of August 2024 which shows the deficient of around 1000 plants hence the gap filling of 1200 plants have been made during 3rd to 7th September 2024.
- The verification of plantation has been made with the officials of Deendayal Port Authority on 22nd October 2024 and it has been verified and confirmed that 90% survival of plants for the plantation carried out during the 2nd Phase under the project.

Selection of Plant Species for Plantation:

Various indigenous tree species suitable for the area have been identified and selected for plantation in suitable areas based on the assessment of soil quality, available water facility, and other environmental parameters.

Number of Sapling:

Approximate numbers of saplings to be required for the greenbelt are as follows;
Total plantations of 11,000 saplings were planted at RoB & 15-16 Birth (Opposite wall both sides) along with additional gap filling in the areas.

Management and Monitoring of Greenbelt:

The plantation within the identified site have been managed and monitored for a minimum period of one year from June 2023 to September 2024. The management of

plantation includes appropriate irrigation of the plantation in regular intervals, during summer and winter periods along with dry spells during the monsoon.

The plants are growing very well and reached more than 4-6 ft. height. The survival of plants has been noted very high as 90% during September 2024. Watering have been made through tanker service at given schedule during the different seasons. (Table. 1)



Table-1 Time Schedule for Watering

Sr. No.	Month & Year	Number of Time
1	October 2023	7 times/ month
2	November 2023	7 times/ month
3	December 2023	7 times/ month
4	January 2024	7 times/ month
5	February 2024	7 times/ month
6	March 2024	9 times/ month
7	April 2024	10 times/ month
8	May 2024	10 times/ month
9	June 2024	8 times/ month
10	July 2024	8 times/ month
11	August 2024	3 times/ month
12	September 2024	5 times/ month



Annexure I
List of Plants for Plantation at site for Greenbelt Development
Site: Road Over Bridge

Sr. No.	Scientific Name	Local Name	No. of Plants
1	<i>Conocarpus</i>	Conocarpus	2500
2	<i>Peltophorum pterocarpum</i>	Peltofoum	200
3	<i>Millettia pinnata</i>	Karanj	100
4	<i>Delonix regia</i>	Gulmahor	200
5	<i>Alstromia schollaris</i>	Saptparni	100
6	<i>Terminalia catapa</i>	Badam	100
7	<i>Plumaria obtusa</i>	Chmapo	100
8	<i>Ceaslpinia pulcherima</i>	Galtoro	100
9	<i>Bauhinia racemosa</i>	Kachnar	200
10	<i>Tabubia rosea</i>	tabubia	100
11	<i>Terminalia arjuna</i>	Arjun	100
12	<i>Cassia fistula</i>	Garmalo	200
	Gap Fillings		2050

Site: Opposite 15-16th Berth

Sr. No.	Scientific Name	Local Name	No. of Plants
1	<i>Conocarpus</i>	Conocarpus	4000
2	<i>Peltophorum pterocarpum</i>	Peltofoum	450
3	<i>Millettia pinnata</i>	Karanj	400
4	<i>Delonix regia</i>	Gulmahor	400
5	<i>Mimusops elengi</i>	Borssalii	300
6	<i>Ceaslpinia pulcherima</i>	Galtoro	450
7	<i>Tabubia rosea</i>	tabubia	400
8	<i>Cassia fistula</i>	Garmalo	300
9	<i>Bauhinia racemosa</i>	Kachnar	300
	Gap fillings		1650



Fig. 4 Digging Out Trench for Plantation



Fig. 5 Transportation of Plants to Site



Fig. 6 Fertile Soil for Better Survival of Plants



Fig. 7 Soil Filling in Plantation Pits



Fig. 8 Organic Manure for Better Growth and Survival



Fig. 9 Regular Watering of the Plants by Tanker

Gap Filling (September 2024)



Current Status of plantation at RoB site



Current Status of plantation opp: 15-16 Berth



Annexure -2

YEAR WISE ACTUAL WORK COSTING OF CSR WORKS APPROVED BY BOARD

1) CSR Works executed during the year 2011 – 2012 and year 2012 – 2014. (Upto Dec'21)

<u>Sr. no</u>	<u>Name of work</u>	<u>Actual cost (Rs in Lakhs)</u>
1.	(a).Road from Dr. Baba Saheb Ambedkar Circle to N.H. 8-A (Via Ganesh Nagar).	Rs.482.65 Lakhs
	(b)Road from S.T. Bus Stand (N.H. 8 – A) to Sunderpuri Cross Road Via Collector Road.	
	(C)Road from N.H. 8 –A Railway Crossing to Maninagar (Along Rly Track).	
	(d)Road from Khanna Market Road (Collector Road) to Green Palace Hotel.	
2.	Construction of Internal Roads at "Shri Ram" Harijan Co-op. Housing Society Ltd. (Nr. Kidana).	
3.	(a)Construction of Cremation Ground and kabrastan with other facilities at Vadinar.	Rs 19.44 (Lakhs)
4.	(b)Providing Cement Concrete internal roads in village Vadinar Stage –I.	Rs 16.16 (Lakhs)
	(a)Approach Road provided for developing the Tourism at village Veera near Harsidhi Mata Temple where lot of tourists & Pilgrims visit.	Rs. 4.65 (Lakhs)
	(b)Water Tank along with R.O. provided near by developing Tourism area.	Rs. 30,000 (Thousand)
	(c)Creating facility of flooring and steps surrounding the lake to stop the soil erosion and attract the tourists, at Village Veera.	Rs. 4.80 (Lakhs)
	<u>Total Rs</u>	<u>528 Lakhs</u>

2) CSR Works for the year 2014-2015.

<u>Sr. no</u>	<u>Name of work</u>	<u>Actual cost (Rs in Lakhs)</u>
1.	Construction of Community Hall-cum school at Maheshwari Nagar, G'dham	Rs 51.90 Lacs
2.	Renovation of "Muktidham" at Kandla	Rs 10.65 Lacs
3.	Sunderpuri-1 valmiki community hall	Rs 5.00 Lacs
	Sunderpuri-2 valmiki community hall	Rs 5.00 Lacs
	Ganeshnagar Community Hall	Rs 10.00 Lacs
	JagjivanMaheshwari community hall	Rs 10.00 Lacs
	Various works of Road of Sapanagar	Rs 99.19 Lac
4.	Construction of compound wall in the Dam of Jogninar village	Rs 14.48 lacs
5.	In addition above 30 Lakhs as committed in Public Hearing meeting held on 18/12/2013 an amount Rs 30 Lakhs shall also be contributed for the CSR works to be carry out at villages Tuna, Vandi , Rampar, Veera etc.	Rs 30.00 Lacs
	<u>Total Rs.</u>	<u>Rs 236.22 Lacs</u>

3) CSR Works for the year 2015-2016.

<u>Sr. no</u>	<u>Name of work</u>	<u>Actual cost (Rs in Lakhs)</u>
1.	Construction of toilets for Girls / Ladies at Khari Rohar village	Rs. 3.00 Lakhs
2.	Construction of Toilets for Girls manatMathak Primary School, Mathak Village	Rs. 3.00 Lakhs
	<u>Total</u>	<u>Rs.6.00 Lakhs</u>

4) CSR Works for the year 2016-2017.

<u>Sr. no</u>	<u>Name of work</u>	<u>Actual cost (Rs in Lakhs)</u>
1.	RCC Community Hall at Harshidhi Mata Temple, Veera village, AnjarTaluka	Rs.19.00 Lakhs
2.	Fabricated Community Hall at Sanghad village, AnjarTaluka	Rs.21.00 Lakhs
3.	CSR Works for Shri MaheshwariMeghavadSamaj, Gandhidham at Grave Yard , Behind Redison Hotel.	Rs.8.00 Lakhs
4.	CSR works for ShirDhanrajMatiyadevMuktiDham, Sector-14 , Rotary Nagar, Gandhidham	Rs. 30.50 Lakhs
5.	CSR works for NirvasitHarijan Co-operative Housing Society, Gandhidham.(Health Cum Education Centre)	Rs. 41.00 Lakhs
6.	CSR works for Shri Rotary Nagar Primary school, Gandhidham.	Rs. 2.80 Lakhs
7.	CSR works at NU -4 , NU-10(B) Sapnanagar& Saktinagar, Golden Jublee Park, at Gandhidham	Rs. 18.00 Lakhs
	<u>Total</u>	<u>Rs 140.30 Lakhs</u>

5) CSR Works for the year 2017-2018.

<u>Sr. no</u>	<u>Name of work</u>	<u>Actual cost (Rs in Lakhs)</u>
1.	CSR works at Shri Ganesh Nagar Govt High School, Gandhidham	38.30
2.	Grant Financial contribution for facility of Army cantonment for 50 air coolers at Kutch Border Area.	15.00
3.	CSR works at Tuna & Vandi villages (providing drainage lines under Swachh Bharat Abhiyan)	39.80
4.	CSR works for S.H.N Academy English School (Managed by Indian Institute of Sindhology –Bharati Sindhu Vidyapeeth), Adipur	40.00
5.	Construction of Internal Road at Bhaktinagar Society, Kidana	
	<u>Total</u>	<u>148.10</u>

6) CSR Works for the year 2018-19

<u>Sr. no</u>	<u>Name of work</u>	<u>Actual cost (Rs in Lakhs)</u>
1.	CSR work to Donate 100 Nos of Computers to Daughters of Martyred Soldiers in the country under the "BETI BACHAO BETI PADHAO" program by Atharva Foundation, Mumbai	Rs 24.00 Lakhs
2.	CSR work to Donate ONE (40 Seater) School Bus for Deaf Children Students for the Institute of Mata Lachmi Rotary Society, Adipur	Rs 18.00 Lakhs
3.	CSR work to Providing One R.O Plant with Cooler at Panchyat Prathmik Sala, Galpadar Village for the ANARDE Foundation, Kandla & Gandhidham Center.	Rs 1.50 Lakhs
4.	CSR work for Providing Drainage Line at Meghpar Borichi village, Anjar Taluka	Rs 25.00 Lakhs
5.	CSR work for Construction of Health Centre at Kidana Village	Rs 13.00 Lakhs
6.	CSR work to provide 4 Nos. of Big Dust Bin for Mithi Rohar Juth Gram Panchayat	Rs 3.40 Lakhs
7.	CSR work for Renovation & construction of shed at Charan Samaj, Gandhidham -Adipur.	Rs 10.00 Lakhs
8.	CSR Work for Renovation/Repairing of Ceiling of School Building at A. P Vidhyalay, Kandla	Rs 10.00 Lakhs
9.	CSR work for Construction of Over Head Tank & Providing 10 Nos of Computers (for students) of Navjivan Viklang Sevashray, Bhachau, Kutch	Rs 9.50 Lakhs
10.	CSR work to Provide Books & Tuition fees for Educational facilities to weaker section children of ValmikiSamaj, Kutch	Rs 2.00 lakhs
11.	CSR work to provide Water Purifier & Cooler for the ST. Joseph's Hospital, Gandhidham	Rs 1.50 Lakhs
12.	CSR work for Construction of Second Floor (Phase - I) for Training Centre of "GarbhSanskran Kendra" "Samarth Bharat Abhiyan" of Kutch KalyanSangh, Gandhidham	Rs 37.00 Lakhs
	<u>Total cost</u>	<u>Rs 154.90 Lakhs</u>

7) CSR Works for the year 2019-20

<u>Sr. no</u>	<u>Name of work</u>	<u>Actual cost (Rs in Lakhs)</u>
1.	CSR activities for Providing Drainage line at Nani Nagalpar village.	3.00
2.	CSR activities for Development of ANGANWADI Building at School no- 12 at Ward no 3 & 6 at Anjar.	7.00
3.	CSR activities for Improving the facilities of Garden at Sapna Nagar(NU-4) & (NU-10 B),Gandhidham.	18.00
4.	CSR activities for development of School premises of Shri Guru Nanak Edu. Society, Gim.	30.00
5.	CSR activities for the improvement of the facilities at St JOSEPH Hospital &Shantisadan at Gandhidham	20.00
6.	Consideration of Expenditure for running of St Ann's High School at Vadinar of last five years 2014 to 2019 under CSR.	825.00
7.	CSR activities for development of school premises of Shri Adipur Group Kanya Sala no-1 at Adipur	6.50
8.	CSR activities for development of school premises of ShriJagjivan Nagar PanchyatPrathmiksala, Gandhidham	16.50
9.	CSR activities for development of school premises of Ganeshnagar Government high school, Gandhidham	9.00
10.	CSR activities for improving greenery, increase carbon sequestration and beat Pollution at Kandla, DPA reg.	352.32
11.	CSR activities for providing infrastructures facilities at "Bhiratna Sarmas Kanya Chhatralaya" under the Trust of SamajNav- Nirman at Mirjapur highway, Ta Bhuj.	46.50
	<u>Total cost</u>	<u>1333.82</u>

8) CSR Works for the year 2020-21

<u>Sr. no</u>	<u>Name of work</u>	<u>Actual cost (Rs in Lakhs)</u>
1.	CSR Proposal for earmarking of 15% Funds for National Marintime Heritage Complex, Lothal, Gujarat (NMHC) from allocated CSR Fund of Rs 3.46 Cr	51.90
	<u>Total</u>	<u>51.90</u>

9) CSR Works for the year 2021-22

<u>Sr. no</u>	<u>Name of work</u>	<u>Actual cost (Rs in Lakhs)</u>
1.	CSR Activities for providing Water supply pipe line for drinking water facilities for poor people & Fishermen at VANDI Village.	20
2.	CSR activities for providing facilities in Girls Hostel of Kasturba Gandhi Balika Vidhyalay, Gandhidham. Cost for Construction of compound wall, entrance gate, girls toilets)	30
3.	CSR works for Construction of Auditorium Hall at RSETI (Rural Self Employment Training Institute) at Bhujodi-Bhuj.	16
4.	CSR works for the providing of SOLAR POWER SYSTEM and other facilities for Othe JEEV SEVA SAMITI at Gandhidham.	9.3
5.	CSR Activities for providing HD projector for KANYA MAHA VIDYALAYA, Adipur	1.5
6.	CSR works for Construction of New Building for Setting up of skill development centre at Rajkot (Sewa Gujarat).	250
7.	CSR Works for Ladies Environment Action Foundation (LEAF) Trust for providing infrastructure to the primary school at Gandhinagar District	46.5
8.	CSR works for Providing of Furniture for the School "Shri Galpadar Panchayat Prathmic Kumar group Sala" at Galpadar village, Taluka:Gim	5
	<u>Total Cost</u>	<u>378.3</u>

10) CSR Works for the year 2022-23

<u>Sr. no</u>	<u>Name of work</u>	<u>Actual cost (Rs in Lakhs)</u>
1.	CSR work for providing One Bore hole with construction one room along with Motor pump at Village MOTI NAGALPAR, Anjar.	18
2.	CSR work for Construction of Shamashan bhoomi (Crematorium) at Gandhidham.	49.5
3.	CSR work for providing metallic sheet DOME in Community Hall at Old Sunderpuri for Shri Juni Sundarpuri Maheshwari Samaj at Gandhidham.	15
4.	CSR Activities for construction of Samajwadi at village: Rampar, Taluka:Anjar.	15
5.	Financial assistance under CSR for providing basic facilities at Gandhidham GSRTC bus station.	25
6.	CSR Activities for construction of School Building for physically disabled, deaf & mute children, Shri & Shrimati Chhaganlal Shyamjibhai Virani Behera Munga Shala Trust, Virani Deaf School at Rajkot.	5
7.	CSR work for construction of new Administrative staff block for the Maitri Maha Vidhyalaya, Adipur.	64.65
8.	Financial support under CSR for providing 60 seater school bus for "Aadhaar Sankul", Manav Seva Trust, Gandhidham.	25
9.	CSR work for extension of Night shelter cum old age home for "DADA BHAGWANDAS ADVANI TRUST" Adipur.	78
10.	Financial assistance under CSR for Rooftop Solar System & Afforestation under clean energy & sustainable development in 10 villages around DPA	63.72
	<u>Total Cost</u>	<u>358.87</u>

11) CSR Works for the year 2023-24 till September

Sr. no	Name of work	Actual cost (Rs in Lakhs)
1.	CSR works for Shree Kachchh Mahila Kalyan Kendra, Bhuj-Kutch	55
2.	CSR Activities for Installation of 125 no. Sanitary Pad Vending Machines at Women Hostels,NGOs etc, in Kutch District	15
3.	CSR Fund for Vadinar Village & surrounding	128.54
4.	CSR Activities for Girls Hostel at Kasturba Gandhi Balika Vidhyalaya At Shinay, Taluka:Gim.	33.25
5.	CSR request for Allotment of fund for construction of Community hall at Adipur for Maheshwari Meghval Samaj.	25
6.	CSR Request for requirement of funds for renovation work in Sector-7, Gandhidham (Aryasamaj Gandhidham)	30
7.	CSR Request for providing"Antim Yatra Bus" & Mortuary Cabinet Morgue" for Adipur-Gandhidham from CSR Funds,	25
8.	CSR Request for creation of a Children park at Gandhidham Military Station, Gandhidham	15
9.	CSR Request for construction of Toilet block units for Girls & Boys NAV JIVAN VIKLANG SEVA SHREY Bhachau	3.04
10.	CSR Request for laying Synthetic Athletic track in Galpadar and to Provide One E-Kart facility for Conveyance of youths at BSF Campus, Gandhidham	75
11.	CSR request for submitted by AAS, Indore for solid waste Management at Gandhidham & Kandla.	49.93
12.	CSR request from Trikamsaheb Manav Seva Trust at Madhapar Near Bhuj for grant for Construction of Community Hall, Compound Wall etc.	40
13.	CSR Request for construction of Dome shaped shed at Rampar Village Prathmik Shala,Rampar	24
14.	CSR Fund for development of School premises of Shri Guru Nanak Education	4.5
15.	CSR Request for conducting Awareness campaigns on T.B. Prevention & treatment, Mumbai	60
16.	CSR Request for fund under CSR for Railway Institute, Gandhidham, Western	5
17.	CSR Proposal project for Sanitary Pad Making Machine for School Girls, Anjar	12.39
18.	CSR Funds for Building Construction of girl's hostel (Kanya Chhatralay) @Luni,Akhil Kutch Ganesh Sevak Sarvajanik Trust-Luni	₹ 50.00
19.	CSR request for amenities for Development of sports facilities Through CSR Funds, Navy Head Quarter Porbandar,NAVYat Navy Head Quarter, Porbandar	₹ 47.18
20.	CSR request for financial support under CSR for " Organizing Programs on Skill Development",Gandhidham Collegiate Board, Adipur	₹ 98.76
21.	CSR fund for construction work for Community hall(samajvadi for cause of human services).Kidana,Kutch Andhra Seva Trust, Gandhidham	₹ 20.00
22.	CSR funds for Karam Educational Complex@mirapar,Bhuj,Akhil Kutch MAheshwari Vikas Seva Sangh, Bhuj(Karam Sankul EDU)	₹ 50.00
23.	CSR fund for vadinar village & surrounding for prathmik shala,Vadinar prathmik shala managed by dist. Panchayat	₹ 28.47
24.	CSR fund for repairing of construction for school,Shree vadinar vadi school vadinar	₹ 16.04
25.	CSR Project proposal for Outdoor flooring and laundry Construction for mentally Disturbed women, St. Joseph's Hospital Trust-Gandhidham ,St, Joseph's Hospital trust-Gandhidham	₹ 29.16
26.	CSR request for creation of Bio Diversity Miyawaki Forest at Gandhidham Military Station, Gandhidham	₹ 57.64

27	CSR Funds request for the Construction of Hall/Dome for Indoor games at Gandhidham,Shri kutch Deshiya Saraswat Brahmin mahasthan trust-Gandhidham.	₹ 20.00
28	CSR Request for repairing of School shed, R.O. Plant, School Colour Work at Ganeshnagar Panchayat Prathmik kumar shala At Gandhidham-Kutch.,Shri Ganeshnagar Panchayat Prathmik Kumar Shala Gandhidham	₹ 8.00
29	CSR request for livelihoods Development of rural women at Kutch Area, ,BAIF Institute for Sustainable Livelihoods and development, pune	₹ 8.71
30	Improvement of village pond at Kidana, Taluka: Gandhidham.,Deputy collector & sub divisional magistrate office , anjar	₹ 72.90
31	CSR request for construction of Gym and Indoor Badminton Court as well as Synthetic Tennis Court,Anjar	₹ 77.90
32	Sanik Kaleyana Board bhuj and Jamnagar	₹ 44.00
33	NMHC Projects	₹ 605.80
	<u>Total Cost</u>	<u>Rs.1835.21 Lakh</u>