

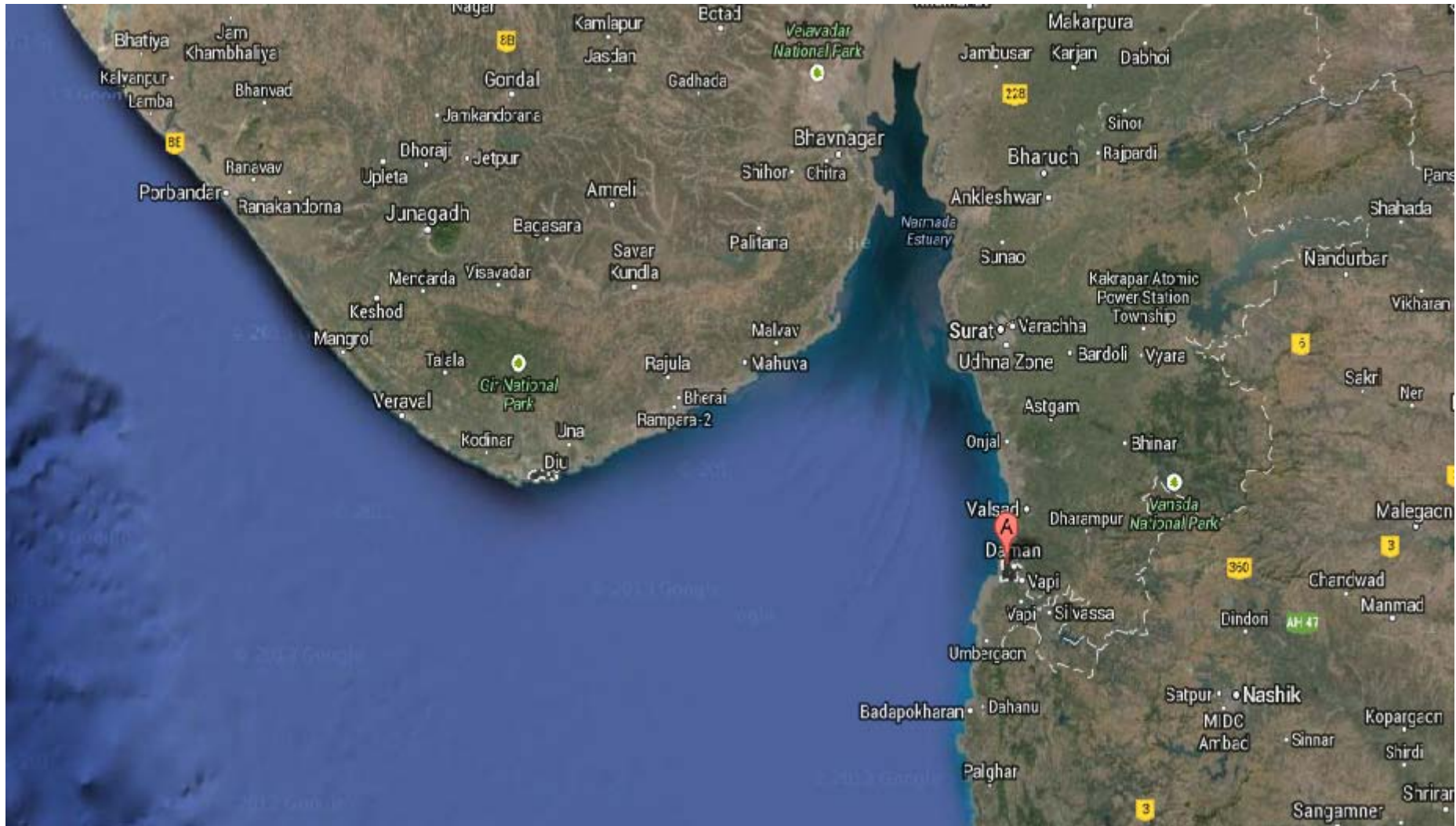


UNION TERRITORY OF DAMAN & DIU

PUBLIC WORKS DEPARTMENT

LOCATION

Daman & Diu



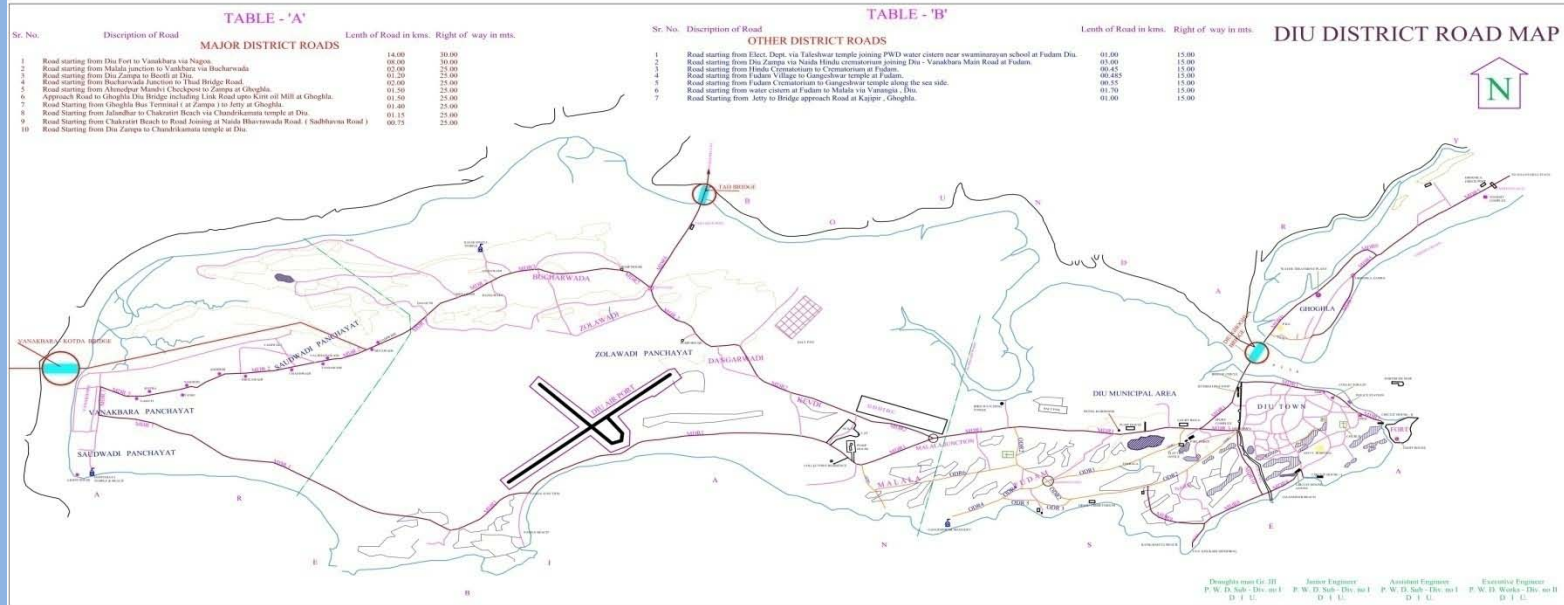
MAP OF DAMAN

Public Works Department



Area : 72 sq km

DIU

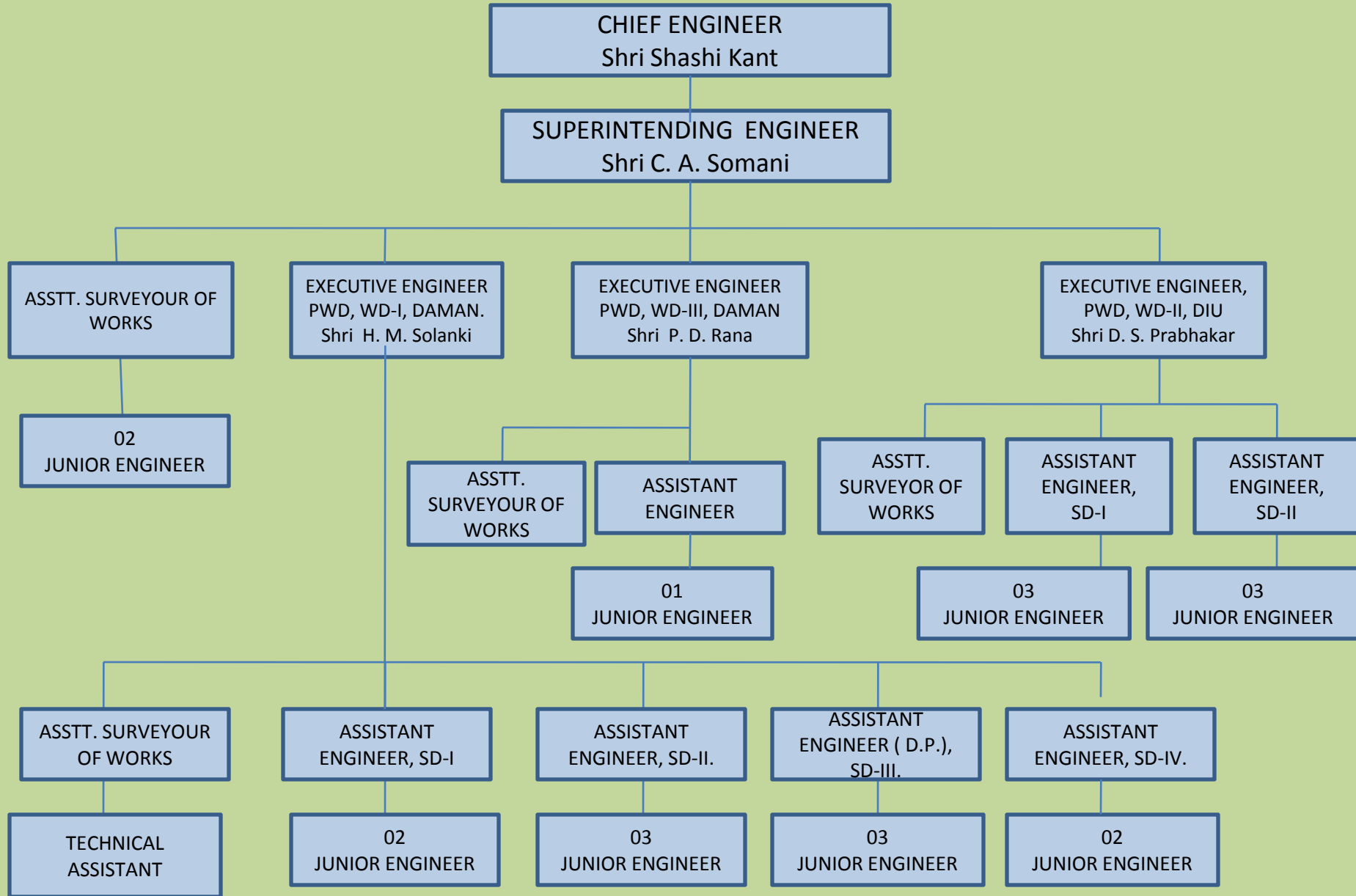


Area : 40 sq km.

OBJECTIVES

- To provide basic infrastructure facilities to the people of Daman & Diu.
- To develop Road infrastructure.
- To improve connectivity by constructing Bridges in Daman District & Diu District.
- To construct Public Buildings to provide better Infrastructure facility.
- To ensure supply of potable water to the public in general of Daman & Diu District.
- Maintaining existing infrastructure of Roads, Bridges, Buildings & Water supply system to ensure better facility to Public in general.

Organization Chart



Details of Technical Staff

Name of Technical Post	Sanctioned Strength	Filled up	Vacant
Superintending Engineer	1	0	1
Executive Engineer	3	1 adhoc	2
Assistant Engineer	11	11	0
Technical Assistant	3	2	1
Junior Engineer	29	19	10

Divisions & Sub Divisions

Work Division	Area of work	Sub Divisions	
I	Deals with the development works of Daman District	I	Water supply, irrigation, Flood Protection Work, Fisheries, Ports & Light House.
		II	Roads, Bridges & Buildings
		III	District Panchayat
		IV	Electrical & Mechanical works.
II	Deals with the development works of Diu District	I	Building & Water Supply.
		II	Roads, Bridges, Port, Light House, Fisheries.
III	Deals with the development works of MPLAD	I	Works of MPLAD

Plan & Non – Plan Budget Allocation & Expenditure

(in Crore)

	2013-14		2014-15		
	Allocation	Expenditure	Allocation	Expenditure upto July 2014	Expenditure in %
Plan	221.14	221.14	221.20	67.72	30.61
Non-Plan	8.51	8.51	6.42	3.07	47.82

MAJOR SECTORS DEALT BY PWD

- Building.
- Roads & Bridges.
- Water Supply.
- Irrigation.
- Other Sectors.
 - Tourism.
 - Education.
 - Agriculture
 - Health.
 - Power.
 - Flood Protection.
 - Civil Aviation

ROADS

DAMAN

Road Category	Length
National Highway (NH 848/B)	10.17 Km.
Major District Road	38.98 Km
Other District Road	17.78 Km.
Village Road	8.93 Km.
Industrial Road	3.40 Km.
District Panchayat	60.00 Km.
Total Road Length	139.26 Km.

DIU

National Highway (NH 848/B)	11.50 Km.
Major District Road	20.34 Km
Other District Road	08.19 Km.
District Panchayat	20.00 Km.
Total Road Length	60.03 Km.

**Major Ongoing Projects :**

Name of Work	Tender Cost	Status	Likely date of completion
Road from Patalia to Mashal Chowk.	7.49 Cr.	Work in Progress (75%)	December 2014
Road from Kadaiya School to Vankad.	7.06 Cr.	Work in Progress (75%)	December 2014
Road from Coastal Highway to Dunetha Garbage dumping site.	4.5 Cr.	Work in Progress (5%)	March 2015
Closing of drain near Rajiv Gandhi Setu	3.92 Cr.	Work in Progress (45%)	December 2014

Major Proposed Projects :

Name of Work	Est. Cost	Status
Improvement of road from Kachigam Char Rasta to Zari Causeway.	4.62 Cr.	Submitted for AA&ES
Improvement of Road from Patlara to Magarwada – Zari road.	3.75 Cr.	Submitted for AA&ES
Improvement of Dholar Jampore Road.	3.05 Cr.	Submitted for AA&ES
Improvement of road from Ringanwada to Kachigam	4.00 Cr.	Estimate under preparation

Recently Completed Projects :

Name of Work	Cost
Coastal Highway Moti Daman.	8.30 Cr.
Widening of Road from Magarwada to Zari Causeway	9.50 Cr.
Improvement of road from Somnath junction to Kachigam Char Rasta and Nani Daman Police Station to Suruchi	2.00 Cr.
Widening of Varkund Panchayat Road.	2.10 Cr.

Major Ongoing Projects :

Name of Work	Tender Cost	Status	Likely date of completion
Kirit Oil Mill to Check Post Ghoghla	4.99 Cr.	Work in Progress (40%)	December 2014
Widening of Road from Nagoa Junction to Vanakbara	3.86 Cr.	Work in Progress (80%)	November 2014

Major Proposed Projects :

Name of Work	Est. Cost	Status
Asphalting work from Nagoa to Vanakbara	2.66	Tender under Acceptance
Cycle Track & Walk way from Be Otli to Vanakbara Phase -II	25.86	SFC approved project.

Recently Completed Projects :

Name of Work	Cost
Asphalting work from Malala to Airport.	1.34 Cr.
Cycle Track from Kevdi to Nagoa. (Phase – I)	2.00 Cr.

Coastal Highway Moti Daman



Magarwada – Zari Causeway Road Moti Daman



Varkund Panchayat Road – Nani Daman



Cycle Track at Diu



Cycle Track at Diu





BRIDGES

DAMAN

RIVER	BRIDGES	COST in Cr.	STATUS
Kolak (Northern Boundary)	Connecting Daman and Gujarat	13.00	Work In Progress (80%) by OI DC
Damanganga	Cable Stayed Bridge	102.19	Sent to MHA on 8-5-14 for EFC
	Old Bridge	--	Close for all type of Traffic
	Pedestrian Bridge	Approx 20.00	Consultant will submit DPR by September 2014
	Rajiv Gandhi Setu	44.53	In Use
	Coastal Highway Bridge	85.84	EFC to be sent to MHA
	Kachigam- Magarwada Bridge	62.24	Sent to MHA on 8-5-14 for EFC
	Kachigam-Zari Bridge	42.77	Approved on 19-7-14
Kalai (Southern Boundary)	Connecting Daman and Gujarat	8.00	Work In Progress (20%) by OI DC

MAP OF DAMAN

Public Works Department



Daman

Plan of Proposed Cable Stayed Bridge



Daman

Proposed View of Cable Stayed Bridge



Daman

Proposed site of Cable stayed Bridge near Light House on Damanganga river



Daman

Old Damanganga Bridge (Closed for All type of Traffic)



Daman

Proposed Pedestrian Bridge on Damanganga River



Daman

Rajiv Gandhi Setu on Damanganga River



Daman
Proposed site for Kachigam Magarwada Bridge



Daman

Proposed site for Kachigam Zari Bridge



Daman
Bridge at Patalia on Kolak river.



Daman
Bridge at Bamanpuja on Kalai River



Bamanpuja Bridge

DIU

SEA	BRIDGES	COST in Cr.	STATUS
Arabian Sea Creek . Eastern side of Diu Town.	Diu Ghoghla Bridge.	13.00	Existing 2 lane Bridge completed in the year 1990.
Arabian Sea Creek . Eastern side of Diu Town.	Diu Ghoghla Bridge. (parallel to existing bridge)	35.00	2 lane Bridge work in progress (10%) by OI DC.
Arabian Sea Creek . TAD Creek Northern side of Diu Town.	Tad Bridge connecting Diu & Gujarat	9.50	2 lane Bridge Work started.
Arabian Sea Creek . Western side of Diu Town.	Connecting Vanakbara village of Diu District & Kotda village of Gujarat state.	--	Proposal under consideration.

Diu

Diu-Ghoghla Bridge

Site Photograph



Diu

Site for Tad Bridge



BUILDINGS

DAMAN

Major Ongoing Projects :

Name of Work	Tender Cost	Status	Likely date of completion
Circuit House Building at Nani Daman	06.25 crores.	Work in progress (25%)	May 2015
Office Building at Bhenslore.	04.50 crores.	Work in progress (50%)	January 2015
New Lekha Building	04.15 crores.	Work in progress (40%)	January 2015
Workshop Building at Govt. Polytechnic	03.20 Crores.	Work in progress (85%)	October 2014
Engineering Building at Govt. Polytechnic, Daman	05.31 crores.	Work in progress (35%)	May 2015
Art Building at Govt. College	05.70 crores.	Work in progress (35%)	April 2015
Central Store Building for Electricity Dept	03.00 crores.	Work in progress (80%)	November 2014
Head Quarter Building for Electricity Dept.	07.90 crores.	Work in progress (35%)	May 2015

Major Proposed Works :

Name of Work	Cost	Status
Coastal Police Station at Kadaiya	02.10 crores.	Tender under Acceptance.
P.W.D. Office Building	08.50 crores.	Submitted for AA&ES.
Adivasi Bhavan	02.40 crores.	Submitted for AA&ES.
Girls Hostel Building at Govt. College	02.00 crores.	Estimate under preparation.
Tourist Hostel at Nani Daman	05.30 crores.	Submitted for AA&ES.

Major Recently Completed Works :

Name of Work	Cost
School Building at Marwad	85.00 lakhs.
30 Bed Hospital at Govt. Hospital	90.00 lakhs.
Electricity Office Building	98.00 lakhs.
Swami Vivekanand Sports Complex	320.00 lakhs

Ongoing Projects :

Name of Work	Cost	Status	Likely date of completion
New School Building at Vanakbara	06.36 crores.	Work in progress (25%)	June 2015
Auditorium at Malala: Civil work	02.40 crores.	Work in progress (80%)	Nov. 2014
Cricket Pavilion at Sport Complex	03.39 crores.	Work in progress (10%)	June 2015
Development of Sport Complex	07.68 Crores.	Work in progress (10%)	June 2015

Proposed Work.

Name of Work	Cost	Status
Sub Jail Building	05.00 crores.	Land to be finalized
Home for Poor	02.00 crores.	Consultant to be appointed.
Development of Ground at Vanakbara	03.80 crores.	Tender under Acceptance
Education Hub, Phase I	47.29 crores.	SFC to be conducted.
Education Hub, Phase II & III	100.00 crores.	DPR to be submitted by consultant

Major Recently Completed Works :

Name of Work	Cost
Transist Hostel Ghoghla	1.35 Cr.

New Circuit House Building Nani Daman



Cost of Project Rs.625.89 Lakhs.

Art Building Govt. College, Nani Daman



Cost of Project Rs. 570.00 Lakhs.

Workshop Building at Govt. Polytechnic, Nani Daman



Cost of Project Rs.320.00 Lakhs.

Multi storey Office Building, Bhenslore, Nani Daman



Cost of Project Rs.451.98 Lakhs.

Central Store Building, Electricity Dept. Nani Daman



Cost of Project Rs. 301.00 Lakhs.

Head Quarter Building, Electricity Dept., Nani Daman



Cost of Project Rs. 798.00 Lakhs.

Lekha Building at Moti Daman



Cost of project Rs. 415.00 lakhs

Daman

Swami Vivekanand Sports Complex



Daman
30 bed Hospital Building at Govt. Hospital, Marwad



PADMABHUSHAN SPORTS COMPLEX-DIU

Cricket Pavilion



PADMABHUSHAN SPORTS COMPLEX-DIU

Layout Plan



Educational Hub

3D View



Hostel

Grass mounds on external façade with openings for ventilation
Ground floor rooms have private courts, while first floor rooms have balconies

EDUCATION HUB AT DIU

Design Competition no.001/Diu/ PWD/2013
Public Works Department No.II, Diu, Union Territory Of Daman and Diu

STUDENT HOSTELS

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SIVA ARCHITECTS

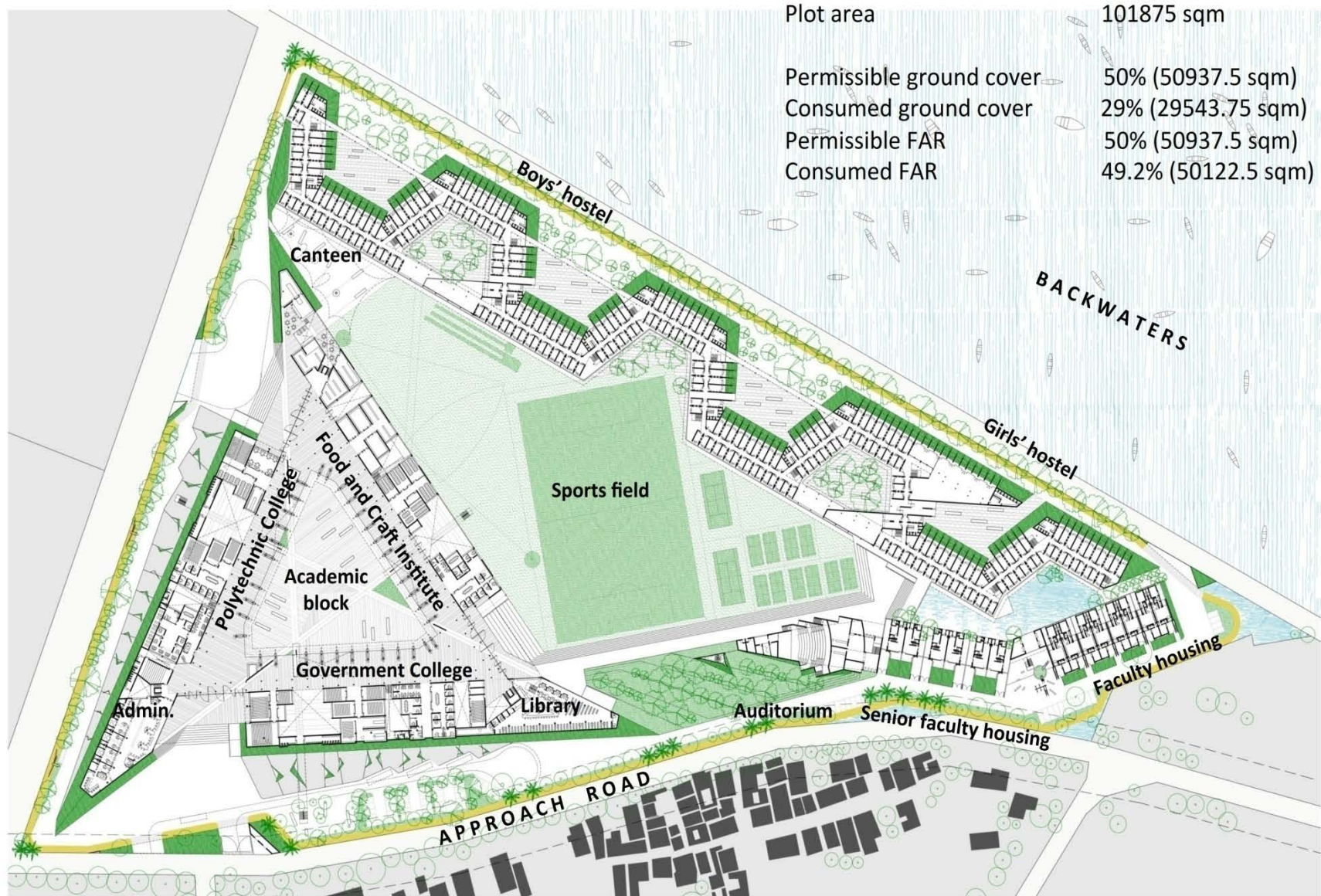
Educational Hub

3D View



Academic block courtyard

The central courtyard holds the three arms together
Ramp forms a visual marker and provides barrier-free entry
Smaller courts look outward
Contemporary architectural language



EDUCATION HUB AT DIU

Design Competition no.001/Diu/ PWD/2013
Public Works Department No.II, Diu, Union Territory Of Daman and Diu

GROUND FLOOR PLAN

arya architects

Educational Hub

3D View



Auditorium at Diu



WATER SUPPLY

STATUS REPORT ON WATER SUPPLY IN DAMAN DISTRICT

1.	INTRODUCTION		
	➤ Name of District	:-	Daman
	➤ Area	:-	72.00 Sq kmt.
	➤ Nos. of villages	:-	22 and 01 census Town Daman.
2)	POPULATION (2011 Census)	:-	1,90,855.00
	➤ Nani Daman - 168070		
	➤ Moti Daman - 22785		
	➤ Daman (Urban) - 158860		
	➤ Daman (Rural) - 31995		
(3)	MAIN SOURCE OF RAW WATER	:-	Through open canal of Damanganga irrigation project from Madhuban Dam/reservoir on rotation basis of every 12 days alternatively.
	(i) Total water allotted for other than irrigation	:-	23.80 MLD (5.25 MGD) (being received through canal for drinking water supply purpose).
	(ii) Total Water requirement for drinking in the ultimate year 2044	:-	64.00 MLD
	(iii) Total water allotted for irrigation purpose for Daman District.	:-	25600 ML per year (25.60 Mm ³). i.e. 70.14 MLD from which 40 MLD Water shall be released for drinking purpose to meet the requirement in the ultimate year 2044.

(4)	REQUIREMENT OF WATER - PRESENT & FUTURE.		
(i)	Present demand		
	(a) Domestic	:-	26 MLD
	(b) Commercial	:-	2 MLD
	(c) Industrial	:-	<u>7 MLD</u>
			<u>35 MLD</u>
(ii)	Ultimate Demand of water (2044)		
	(a) Domestic	:-	46 MLD
	(b) Commercial	:-	13 MLD
	(c) Industrial	:-	<u>7 MLD</u>
			<u>64 MLD</u>
(5)	PRESENT CAPACITY OF WTP		
	(i) Water Treatment Plant (WTP), Dabhel.	:-	16 MLD
	(ii) Water Treatment Plant (WTP), Magarwada.	:-	<u>5 MLD</u>
			<u>21 MLD</u>

(6)	SUPPLY OF POTABLE WATER		
	(i) Nani Daman	:-	75 LPCD
	(ii) Moti Daman	:-	130 LPCD

(7)	EXISTING INFRASTRUCTURES			
(i)	Existing WTP capacity			
SR. NO.	WTP WITH RESERVOIR CAPACITY	WTP CAPACITY	INSTALLED & COMMISSIONED	YEAR OF COMMENCEMENT
1.	Dabhel 200 ML	16 MLD	GWSSB	1994
2.	Magarwada 150 ML	5 MLD	U.T. Administration	2003

(ii)	Existing capacity of ESR and Sumps				
SR. NO.	LOCATION / AREA	ESR		SUMP	
		NO.	CAPACITY LAKH LTRS.	NO.	CAPACITY LAKH LTRS.
1.	RURAL	33	29.10	23	60.00
2.	URBAN	14	14.60	13	35.25
	Total	47	43.70	36	95.25

(iii)	PIPE LINE NETWORK	
(1)	GRAVITY MAIN LINE	
	(a) From WTP Dabhel	35357.00 Rmt.
	(b) From WTP Magarwada	<u>16228.00 Rmt.</u>
		<u>51585.00 Rmt.</u> i.e. 51.585 Km.
(2)	DISTRIBUTION LINE	
	(a) URBAN AREA	44635.00 Rmt.
	(b) RURAL AREA	<u>131826.00 Rmt.</u>
		<u>176461.00 Rmt.</u> i.e. 176.461 Km.
(iv)	BOREWELLS WITH HAND PUMP	601.00 Nos.
(v)	STAND POST	686.00 Nos.
(vi)	HOUSE CONNECTION	
	a.Domestic - 11781	12,207 Nos.
	b. Commercial - 154	
	c.Jetty & Ports - 02	
	d. Industrial - 255	
	e.Public taps - 15	

	12,207	

(8)	PROPOSED INFRASTRUCTURES
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(i)	PROPOSED MAJOR PROJECT FOR AUGMENTATION OF WATER SUPPLY
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Sr No	Name of work	Project Cost	Present Status
a.	Laying of pipeline from Madhuban Dam to Daman District.	4931.00 Lakhs.	The work being executed by OI DC Daman and the same is in progress. (55 Kms Total length to be laid) (59 %) Will be completed by March 2015
b.	Construction of 17 MLD Water Treatment Plant at Dunetha, Nani Daman.	1693.00 Lakhs	The work being executed by OI DC Daman and the same is in progress. (6-2014 was the dead line) (30 %) Will be completed by March 2015
c.	Underground Sump at WTP, Dabhel (40.00 lakhs lts)	250.00 lakhs	Work in progress. (30 %) Will be completed by March 2015
d.	Composite Structure of RCC underground Sump & ESR at Kothapat Sheri, Daman (3.00 lakhs lts Sump & 1.50 lakhs lts ESR)	65.51 lakhs	Work in progress (50%) Will be completed by December 2014
e.	Composite structure of RCC Underground Sump & ESR at Parkota Sheri, Daman (3.00 lakhs lts Sump & 1.50 lakhs lts ESR)	67.10 lakhs	Work in progress (40%) Will be completed by December 2014

(ii)	PROPOSED UPGRADATION / AUGMENTATION OF WTP					
Sr. No.	LOCATION	EXISTING WTP CAPACITY IN MLD	PROPOSED WTP CAPACITY IN MLD	COST IN LAKHS	TOTAL WTP CAPACITY IN MLD	STATUS
1.	DABHEL	16	20.50	2523	36.50	Land acquired. Draft DPR approved & TS accorded. Submitted for AA & ES
2.	MAGARWADA	05	05	1776	10	Land under acquisition, Revised Draft DPR submitted by the consultant. Presentation to be done.
3.	DUNETHA	--	17	1693 1	17	Work is in progress (OIDC). (30%) Will be completed by March 2015
	Total	21	42.50		63.50	

(9)	TARRIF	
(i)	Rs. 4.00/1000 lit. (Domestic) /Rs. 40/month (minimum)	
(ii)	Rs. 10.00/10,000 litre (commercial), Rs.20/- for above 10,000 lits., Rs. 500/month (minimum)	

(10)	REVENUE		
(i)	April 2013 To March 2014	:-	Rs. 49,29,005 (Rural)
(ii)	April 2013 To March 2014	:-	Rs. 64,33,827 (Urban)

	Total.....	:-	Rs. 1,13,62,832

11	Operational Cost	
	O & M Cost	Rs. 2,80,00,000
	Revenue	Rs. 1,13,63,000
	Actual cost	Rs. 5.10 /1000 liters

STATUS REPORT ON WATER SUPPLY IN DIU DISTRICT

1.	INTRODUCTION		
	➤ Name of District	:-	Diu
	➤ Area	:-	39.00 Sq kmt.
	➤ Nos. of villages	:-	04 and 01 census Town Diu.
2)	POPULATION (2011 Census)	:-	52074.00
	➤ Diu (Urban) - 23,991		
	➤ Diu (Rural) - 28,083		
(3)	MAIN SOURCE OF RAW WATER	:-	Through conduit pipeline from Raval Dam situated at Gir forest Gujarat 40 kms away.
	(i) Total water allotted	:-	2.50 MLD (being received through conduit pipeline for drinking water supply).
	(ii) Total Water requirement for drinking in the ultimate year 2044	:-	11.00 MLD

(4)	REQUIREMENT OF WATER - PRESENT & FUTURE.		
(i)	Present demand		5.5 MLD
(ii)	Ultimate Demand of water (2044)		
	(a) Domestic	:-	9 MLD
	(b) Commercial	:-	2 MLD
	Total		<u>11 MLD</u>
(5)	PRESENT CAPACITY OF WTP		
	(i) Water Treatment Plant (WTP), Ghoghla.	:-	4.5 MLD

(6)	SUPPLY OF POTABLE WATER		
	(i) Diu district	:-	55 LPCD

(7)	EXISTING INFRASTRUCTURES			
(i)	Existing WTP capacity			
SR. NO.	LOCATION / AREA	WTP CAPACITY	INSTALLED & COMMISSIONED	YEAR OF COMMENCEMENT
1.	Ghoghla	4.5 MLD	PWD	1991

(ii)	Existing capacity of ESR and Sumps				
SR. NO.	LOCATION / AREA	ESR		SUMP	
		NO.	CAPACITY LAKH LTRS.	NO.	CAPACITY LAKH LTRS.
1.	RURAL	6	9.5	7	21.00
2.	URBAN	7	10.65	8	33.00
	Total	13	20.15	15	54.00

(iii)	PIPE LINE NETWORK																
(1)	GRAVITY MAIN LINE	37.00 kms															
(2)	DISTRIBUTION LINE	71.00 kms.															
(iv)	BOREWELLS WITH HAND PUMP	68.00 Nos.															
(v)	STAND POST	153.00 Nos.															
(vi)	HOUSE CONNECTION <table> <tr> <td>a. Domestic</td><td>-</td><td>11017</td></tr> <tr> <td>b. Commercial</td><td>-</td><td>104</td></tr> <tr> <td>d. Industrial</td><td>-</td><td>8</td></tr> <tr> <td></td><td></td><td>-----</td></tr> <tr> <td></td><td></td><td>11,129</td></tr> </table>	a. Domestic	-	11017	b. Commercial	-	104	d. Industrial	-	8			-----			11,129	11,129 Nos.
a. Domestic	-	11017															
b. Commercial	-	104															
d. Industrial	-	8															

		11,129															

(8)	PROPOSED INFRASTRUCTURES
(i)	PROPOSED MAJOR PROJECT FOR AUGMENTATION OF WATER SUPPLY

Sr No	Name of work	Project Cost	Present Status
a.	Water Supply Scheme based on.Sardar Sarovar Canal based Pipeline Project for Diu.	35.10 Crores.	The work being executed by OI DC Daman and the same is in progress (35%)

(9)	TARRIF
(i)	Rs. 3.00/1000 lit. (Domestic) /Rs. 25/month (minimum)
(ii)	Rs. 16.00/1,000 litre (commercial), Rs. 250/month (minimum)

(10)	REVENUE		
(i)	April 2013 To March 2014	:-	Rs. 40,17,790.00
	Total	:-	Rs. 40,17,790.00

11	Operational Cost	
	O & M Cost & Raw water charges	Rs. 1,20,38,000
	Revenue	Rs. 40,18,000
	Actual cost	Rs. 12.50 /1000 liters

Check Dam on Kalai river Bamanpuja Moti Daman



40.00 lakhs Its capacity sump at Dabhel , Nani Daman



Cost of project Rs. 246.00 lakhs

Proposed works

Name of Work	Cost	Status
Extension of Runway	5.00 crores	Deposit work to AAI
Air traffic Control Tower	5.00 crores	Deposit work to AAI
Infrastructure development of Airport	3.50 crores	Deposit work to AAI

PORTS & FISHERIES

Ongoing works

Name of Work	Cost	Status
Passenger jetty	1.21 crores	Work in progress (10%)
Jetty at Vanakbara	5.65 crores	Work in progress (90%)

Proposed work

Name of Work	Cost	Status
C. C pavement work at Jetty, Vanakbara	3.50 crores	Submitted for approval

PENDING ISSUES WITH GOVT. OF INDIA.

Name of Project	Project Cost	Ministry	Status
Bridge across Damanganaga river connecting Kachigam and Magarwada	62.24 Cr.	Ministry of Home Affairs	Proposal Sent on 8-5-2014 for approval of SFC
Bridge across Damanganaga river near Light House connecting Nani Daman & Moti Daman	102.19 Cr.	Ministry of Home Affairs	Proposal Sent on 8-5-2014 for approval of SFC



Thank You