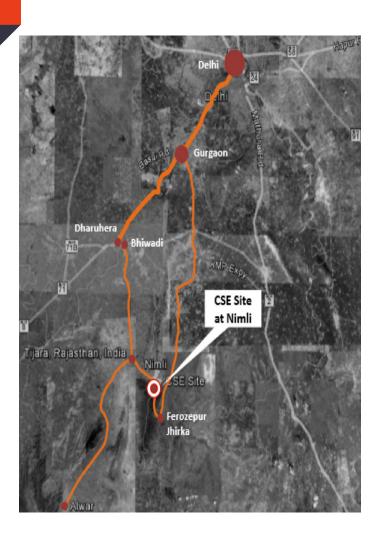


AAETI – GREEN FEATURES

LOCATION



Nimli Village, Tijara Tehsil, Alwar, Rajasthan

Distances

Delhi (via Bhiwadi): 121 km

Gurugram (via Bhiwadi): 86 km

Gurugram (via Ferozpur Jhirka): 108 km

Bhiwadi: 46 km

Alwar: 62 km

Tijara: 15 km

Ferozpur Jhirka: 11 km



NATURAL SETTINGS



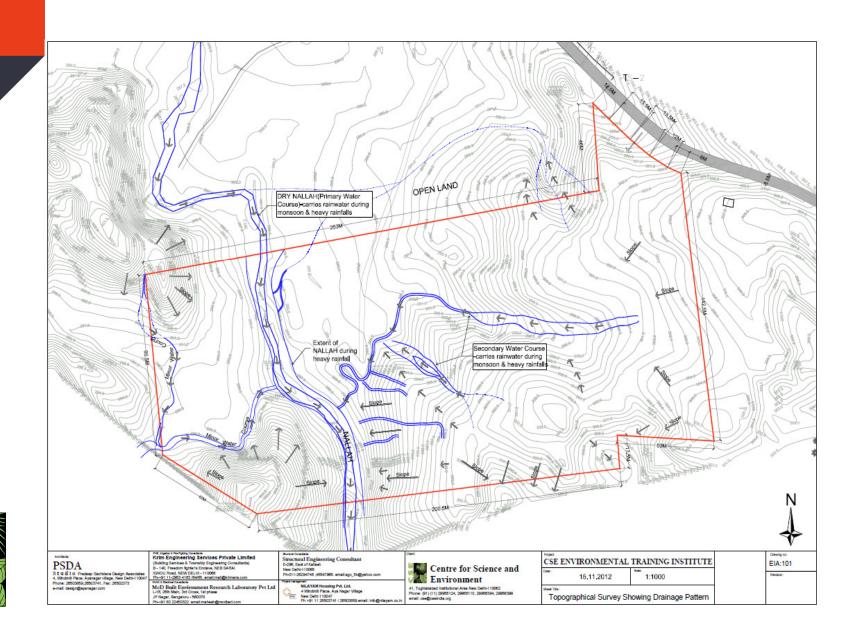






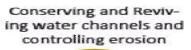


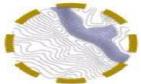
TOPOGRAPHIC & WATER COURSE





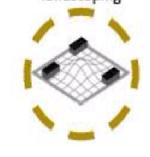








Retain native trees and landscaping



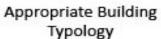


Optimizing Ground Coverage and reducing impervious services

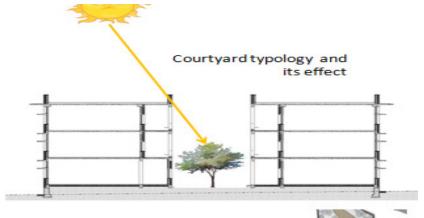


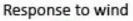




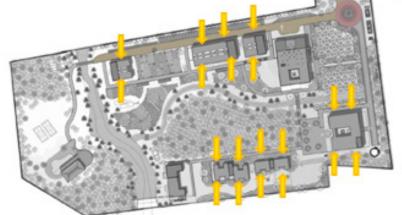














Response to sun for thermal comfort





TYPOLOGY AND ORIENTATION







Stones from the site are utilized in boundary wall construction





Temporary structures made up of rammed earth from the site





Recycled iron bars from construction are used for this gate and similar elements









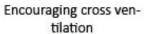
Highly reflective surfaces bounce off radiation. **Good insulation** protects the outside heat to enter inside







Light shelves in corridors allow natural light to filter in and allow hot air to escape

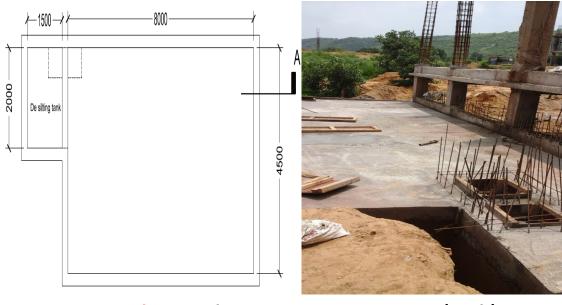




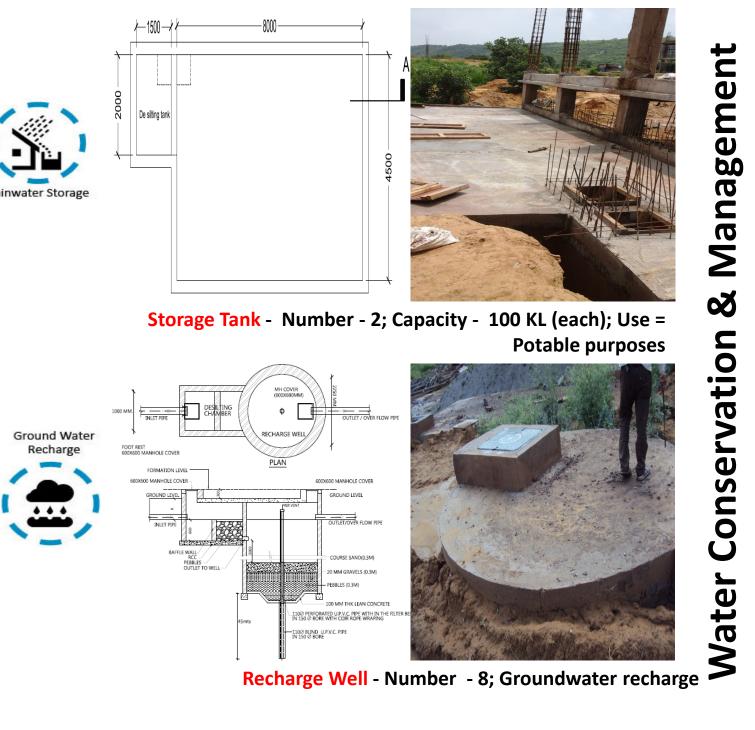


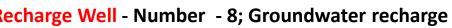


Rainwater Storage



Storage Tank - Number - 2; Capacity - 100 KL (each); Use =

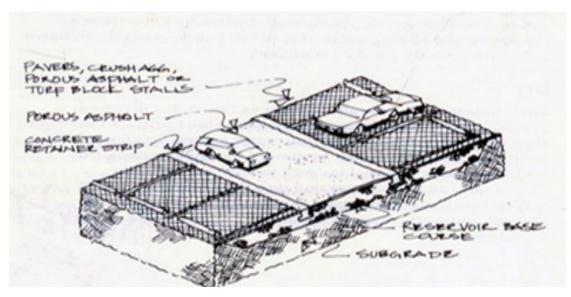






Soil Moisture, greening and reducing need for irrigation





Reducing parking lot imperviousness

WATER CONSERVATION & MANAGEMENT



Planted native species and constructed anicut on natural stream increases groundwater recharge









Campus will produce 300 kWh of power currently which will offset 30-40% of the total energy demand

Efficient Techniques and equipments



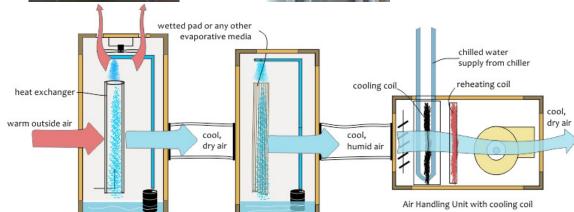
Self closing taps and fixtures and LED bulbs reduce water and energy usage **ENERGY NEXUS**



indirect evaporative cooling

only wet season





direct evaporative cooling

only dry season







Campus will have waste segregation system & recycle 100% of organic

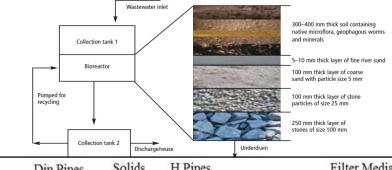
waste onsite





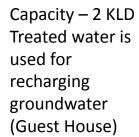
Settler Planted filter Bed Anaerobic baffled reactor Polishing Pond and anaerobic filter

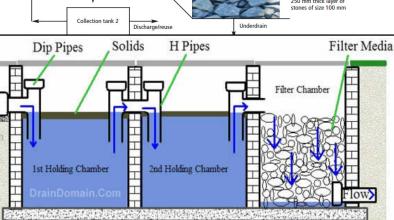
Capacity – 8 KLD Reuse Horticulture (Academic & Faculty block)



Capacity - 20 KLD Reuse -Horticulture + **Flushing** (Staff, SHB 1 & 2 & Cafeteria)









D AND LIQUID W MANAGEMENT

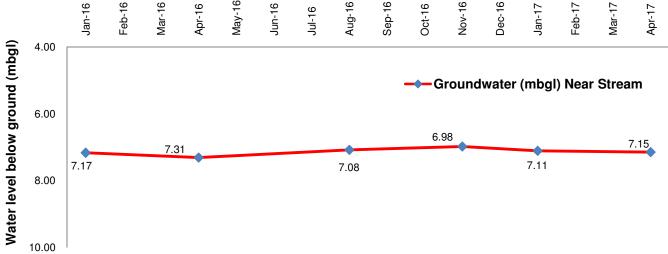


Key performance indicators

A. Water Positive Campus

- •100% wastewater recycle & reuse
- •86 LPCD freshwater use 36% lower than the norms
- •Harvested rainwater: 110% of the freshwater waster consumption

Groundwater level at AAETI, Nimli



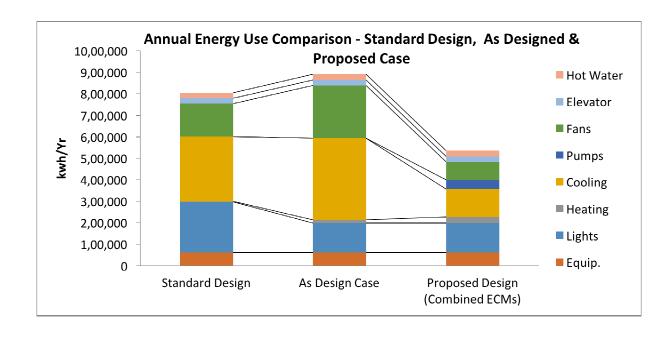




Key performance indicators

B. Energy efficient & renewable energy Campus

- •Designed for 100% renewable energy based off-grid campus
- •Electricity consumption 34% less than standard design





Key performance indicators

C. Zero waste Campus

- •Designed for 100% recycle & reuse of all wastes
- •Treated wastewater to be reused for flushing & horticulture
- Organic solid waste to be composted & used as manure
- •Inorganic solid waste to be sent for recycling
- Laboratory waste to be stabilized and disposed at TSDF site











Pollution Control Consultants)

An ISO 8001 2000, 1901

TEST REPORT

WATER SAMPLE QUALITY

: EL/BWD/RPTW/6293-17 Issue Date: 03/10/201*

o : Ms Anii Aggerwal Environment Training Institute

Issued To : Mis Anil Augurawal Environment Training Institute
Village-Ninali, Block Tipara, Blott. Alwar Rajusthur
Sample Description : Borewell Water
Sample ID : BW/26/99/17/10
Swedier Date : 2/6/92/2017

Longitude : E 76°51'14"

Ref No.

RESULTS

S. No.	PARAMETER	UNIT	RESULT	STANDARD LIMIT (Desirable)	STANDARD LIMIT (Permissible)	TEST METHOD
1.	pH		7.33	6.5-8.5	No Relaxation	IS:3025 Part-11
2.	Color	Hazen	- 3	5	15	18:3025 Part-4
3.	Odour		Agreeable	Agreeable	Agreeable	IS:3025 Part-5
4.	Taste		Agrocable	Agreeable	Agreeable	18:3025 Part-7
5.	Turbidity	NTU	<	01	05	1S:3025 Part-10
6.	Total Hardness as CaCO ₃	mg/l	148	200	600	IS:3025 Part-21
7.	Iron as Fe	mg/l	ND	0.3	No Relaxation	IS:3025 Part-53
8.	Chlorides as Cl	mg/l	142	250	1000	IS:3025 Part-32
9.	Residual free Chlorine	mg/l	ND	0.2	1.0	IS:3025 Part-26
10.	Total Dissolved Solids	mg/l	460	500	2000	IS:3025 Part-16
11.	Calcium as Ca	mg/l	. 68	75	200	IS:3025 Part-40
12.	Magnesium as Mg	mg/l	27	30	100	IS:3025 Part-46
13.	Copper as Cu	mg/l	ND	0.5	1.5	IS:3025 Part-42
14.	Sulphate as SO ₄	mg/l	25.7	200	400	IS:3025 Part-24
15.	Nitrate as NO;	mg/l	10.5	45	No Relaxation	IS:3025 Part-34
16.	Total Alkalinity as CaCO ₂	mg/l	135	200	600	IS:3025 Part-23
17.	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 Part-60

S - 3, Phase - II, (Near Dee Pharma) Indl. Area, Bhiwadi - 301019, Distt. Alwar (Rai.)

.te:www.pollutionconsultants.com .:anupam@pollutionconsultants.com

E.L.

ENVIRO LAB

Mob.: 09214012627 20 09314012627

Page 2 of 2

(Pollution Control Consultants)
An ISO 9001: 2008, 14001: 2004, 6 OHSAS 18001-2007 Certified Laboratory
Recognized from Ministry of Environment, Forest & Climate Change (MoEFCC) Govt. of India
Under the Environment Protection Act 1865

OPERATION AND MONITORING

STANDARD STANDARD S. No. PARAMETER UNIT RESULT LIMIT LIMIT TEST METHOD (Permissible) 18. Mercury as Hg mg/l IS:3025 Part-48 0.001 No Relaxation 19. Cadmium as Cd ND. No Relaxation IS:3025 Part-41 20. Arsenic as As ND IS:3025 Part-37 mg/l Phenolic Compound ND mg/l 0.001 0.002 IS:3025 Part-43 Selenium as Se mg/l ND No Relaxation IS:3025 Part-56 No Relaxation 15/3025 Part/54 24. Lead as Pb mp/l ND No Relaxation IS:3025 Part-47 25. Zinc as Zn 0.05 mg/l IS:3025 Part-49 Chromium as Cr ND mg/l No Relaxation 18:3025 Part-52 Manganese as Mn ND mg/l IS:3025 Part-59 IS:3025 Part-57 mg/l ND 0.03 IS:3025 Part-55 mg/l IS:3025 Part-34 Barium as Ba ND mg/l No Relaxation 15:13428 Annex F 32. CMoramines as Cl₂ ND No Relaxation IS:3025 Part-25 mg/l Shall not be Shall not be detectable in 33. E-coli MPN/100ml detectable in any IS:1622-1981 any 100ml 100ml sample Shall not be detectable in 34. Total Coli Form MPN/100ml 15:1622-1981 detectable in any any 100ml 100ml sample sample 35. Anionic Detergent mg/l ND

NOTE ND - Not Detected

NOTE: 1. The result listed refer only to the tested samples and applicable parameters.

2. Sample will be destroyed one month from the date of issue of test certificate.

3. Any complaints about this report should be communicated within 7 days of issue of this report.

 The report is not to be reproduced-wholly or in part and can Not be used as an evidence in the Court of law and should Not be used in any advertising media without our special permission in writing.

Not be used in any advertising media without our special permission in writing.

5. Any Backup either related to re-issue or changing of report should be given within 30 days of issue of the way.

(Analysed By)







S - 3, Phase - II, (Near Dee Pharma) Indl. Area, Bhiwadi - 301019, Distt. Alwar (Raj.)



Thank you



