



Verification Report for

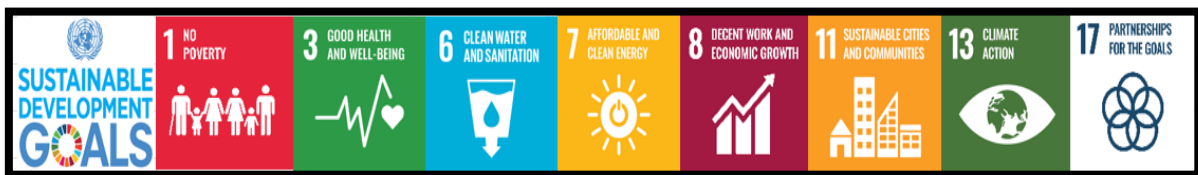
Project : CETP Wastewater Recycling by ZIPL, Gujarat, India.
UWR Project ID : 403

Name of Verifier	SQAC Certification Pvt. Ltd.
Date of Issue	January 06, 2024
Project Proponent	Zydus Infrastructure Pvt. Ltd. (ZIPL), Ahmedabad, Gujarat.
UWR Project Aggregator	Kapil Acharya
Work carried by	Mr. Santosh Nair
Work reviewed by	Mr. Praful Shinganapurkar

Summary:

SQAC Certification Pvt. Ltd. has performed verification of the “CETP Wastewater Recycling by Zydus Infrastructure Pvt. Ltd. (ZIPL), Gujarat, India”. The project activity involves the setup of a Common Effluent Treatment Plant (CETP) within the SEZ for each industrial member unit within the SEZ to provide and operate individual wastewater treatment plants. There are 17 registered members sending their effluent to the CETP. The recycled effluent is reused by the member units for captive industrial cooling/boiler purposes and is also used within the SEZ for gardening, horticulture and landscaping purposes, which would have otherwise been met by groundwater extraction from the existing bore well/s.

The project activity meets the following UN SDG's:



Verification for the period: : 01/01/2014 to 30/11/2023 (09 years, 11 months)

Accredited by 5 Jupiter House, Callera Park, Aldermaston, Reading Berkshire RG7 8NN, United Kingdom (UK).

India Office: Off. No. 4, Fifth Floor, Buildmore Business Park, New Canca Bypass Road, Khorlim, Mapusa, Goa – 403 507

Web: www.sqac.in

Email: info@sqac.in Tel: 7219716786 / 87





In our opinion, the total RoU's over the crediting / verification period stated in the Project Concept Note and Monitoring Report, PCNMR submitted to SQAC are found to be correct and in line with the UWR guidelines.

The verification was done onsite by way of site visit, interviews, document verification and submission through emails.

SQAC is able to certify that the RoU's from the CETP Wastewater Recycling by ZIPL, Gujarat, India, (UWR ID – 403) for the period 01/01/2014 to 30/11/2023 amounts to **49,77,286** RoUs.

Detailed Verification Report:

The project activity is pre-approved under the UWR RoU program for the following scope:

- Scope 5 (Conservation measures taken to recycle and/or reuse water, spent wash, wastewater etc across or within specific industrial processes and systems, including wastewater recycled/ reused in a different process, but within the same site or location of the project activity. Recycled wastewater used in off-site landscaping, gardening or tree plantations / forests activity are also eligible under this Scope).

Purpose:

The project activity is a CETP followed by RO & MEE which recycles and reuses wastewater from member units within the project boundary for captive gainful industrial use (e.g. cooling towers and boilers) and gardening/horticulture purposes.

The project activity reduces groundwater extraction in the region and showcases efficient reuse of industrial wastewater as a key corporate environmental intervention towards a more water secure India.

The project proponent is M/s. Zydus Infrastructure Pvt. Ltd. (ZIPL or PP) who has setup a Common Effluent Treatment Plant (CETP) within the SEZ since it was difficult for each industrial member units within the SEZ to provide and operate individual wastewater treatment plants. The formal approval for the SEZ was received in June 2006 and the permission from Gujarat Ground Water Authority and Gujarat Pollution Control Board was received in September 2006, as per available records.



Annexure-2

GUJARAT POLLUTION CONTROL BOARD
 Paryavaran Bhavan
 Sector-10-A, Gandhinagar - 382 010.
 Phone : 23222156, 23222095, 23222096
 Gram : CLEANWATER, Fax : (079) 23232156
 Website : www.gpcb.gov.in

NO-ABDNOC-GEN-1114/ 221121

To: 14 SEP 2006

✓ **M/s. ZYDUS INFRASTRUCTURE PVT. LTD.**
 ZYDUS TOWER,
 SATELLITE CROSS ROAD,
 AHMEDABAD-380015.

Sub: NO OBJECTION CERTIFICATE.
 Ref: Your Application No. - dated -2/5/2006 & letters dt.12/7/2006 & 4/9/2006.

Sir,

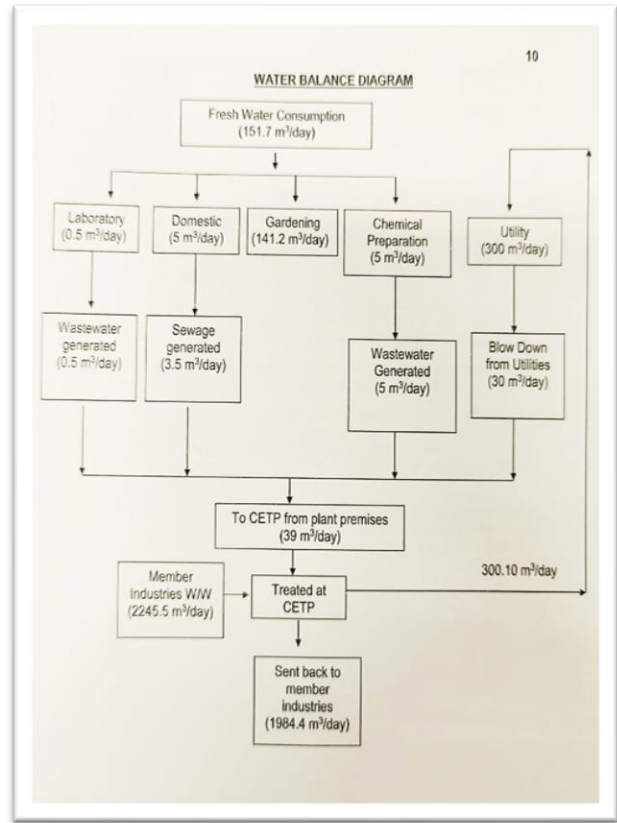
Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board has No Objection to your setting up of a pharmaceutical park-SEZ (for approximately -32 formulation units only) at vic. MATODA, SARU, CHACHARWADI, VASNA, TA-SANAND, DIST-AHMEDABAD (Total area = 49 Ha) for the manufacture of the following items. The Validity period of the NOC will be five years from date of issue of the order-

Sr.No	Product	Capacity M/T/M
1.	TABLETS	1150
2.	CAPSULES-ANTIBIOTIC (DRY POWDER/ DRY SYRUP)	66
3.	CAPSULES (NON ANTIBIOTICS)	3.55
4.	SOFT GELATINE CAPSULES	400
5.	LIQUIDS	1300
6.	INJECTION (VIALS/AMPOULES/OPTHALMIC VIALS/VACCINE VIALS)	200

SUBJECT TO THE FOLLOWING CONDITIONS :-

SPECIFIC CONDITIONS:

- Only pharmaceutical formulation units limiting to the total aggregate production capacity as mentioned above shall be allowed at the proposed park.
- Individual units as per the applicability, has to obtain the necessary permission of the Board.



ENVIRONMENT MANAGEMENT SYSTEM ADEQUACY AND EFFICIENCY CERTIFICATE

Gujarat Industrial and Technical Consultancy Organization Ltd. (GITCO Ltd.), Ahmedabad of Gujarat State is recognized Schedule-I Environmental Auditor by the GPCB, Gandhinagar under the Environment Audit Scheme introduced by the Hon'ble High Court Gujarat, vide its orders dtd.20/12/1996 and 13/3/1997 and modified order dtd. 16/9/1999, as an Environmental Auditor for the purpose of the auditing, having carried out environmental audit of

a) Zydus Infrastructure Pvt. Ltd.

b) Located at:
 Plot No. Phamez-Special Economic Zone,
 Sarkhej-Bavla Highway
 NH-5A, Village - Matoda
 Taluka - Sanand,
 District - Ahmedabad Rural

c) Manufacturing products as under:

Treatment Facility	Consented Capacity	Effluent Actually Treated during Said Audit Period
Wastewater received from member units (Industrial Effluent 3000 m³/d + Domestic Effluent 500 m³/d + Inhouse effluent generated 85 m³/d)	3585 m³/d	2284.5 m³/d

Having completed the Environmental Audit period on personal monitoring and audit report, prepared as per the direction of Honorable High Court in Environmental Audit Scheme, it is certified that the Environmental Management System (EMS) provided by this CETP for the treatment of raw effluent received from member units and capacity stated above is adequate and efficacious to achieve the quality of effluents (Air + Wastewater + Solid Waste) as specified in Consent / Notifications by GPCB, Gandhinagar for the following quantity of waste generation.

GUJARAT INDUSTRIAL AND TECHNICAL CONSULTANCY ORGANISATION LIMITED
 Regd. Office : GITCO HOUSE, Opp. Sardar Patel Stadium, Navrangpura, Ahmedabad - 380 009.
 E-mail : info@gitco.co.in Website : www.gitco.co.in CIN : U91990GJ1978PLC003258
 Phone : (079) 26569617, 29701172 / 1772, 74860 30350 GST : 24AAACG5575H12M

Sr. No.	Particular	Unit	Actual Quantity Generated/Treated	As per Consent
a) Liquid effluent from Member Unit				
1.	Industrial Effluent	m³/d	2245.5	3000.0
2.	Domestic Sewage	m³/d		500.0
Liquid effluent from CETP Plant				
1.	Industrial Effluent	m³/d	35.5	73.0
2.	Domestic Sewage	m³/d	3.5	12.0
b) Hazardous / Solid Waste Generated - Half Year				
	ETP Sludge	t / Half Year	18	22.5
	MEE Salt	t / Half Year	65	170.0
	Used Oil	t / Half Year	0.5	0.5
c) Air Emission				
1.	Flue gas Stacks		Adequate and Efficacious	
2.	Process Stacks		Not Applicable	

This certificate is valid for the audit period only. However, it is subjected to automatic cancellation in case of any change in product profile/capacity, quality & quantity of effluents (Air + Water + Hazardous Waste) and efficiency of EMS equipment.

This certificate is part of the Environment Audit Report.

Date: 8/12/2022

Name & Address of the Environmental Auditor
 Gujarat Industrial & Technical Consultancy Organization Ltd.,
 GITCO House, Ahmedabad

B. M. Shah

Place: Ahmedabad

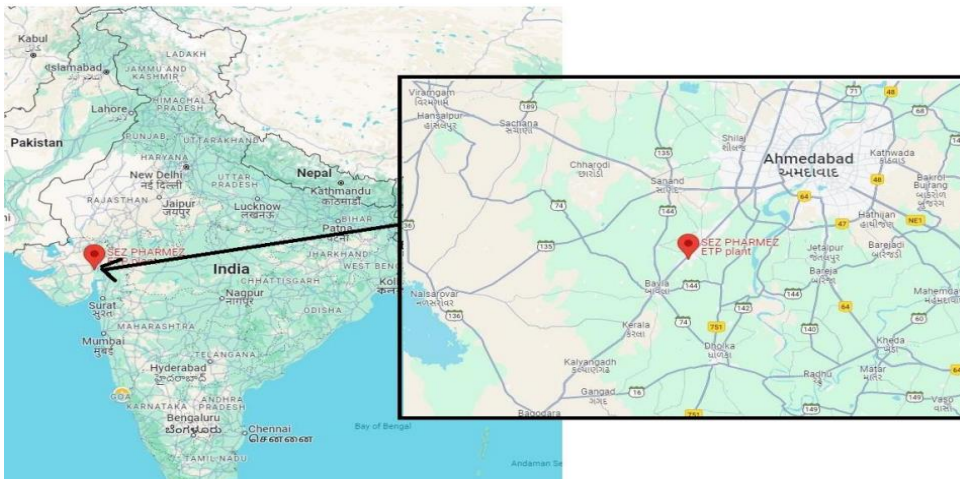
Signature of the Authorized Person

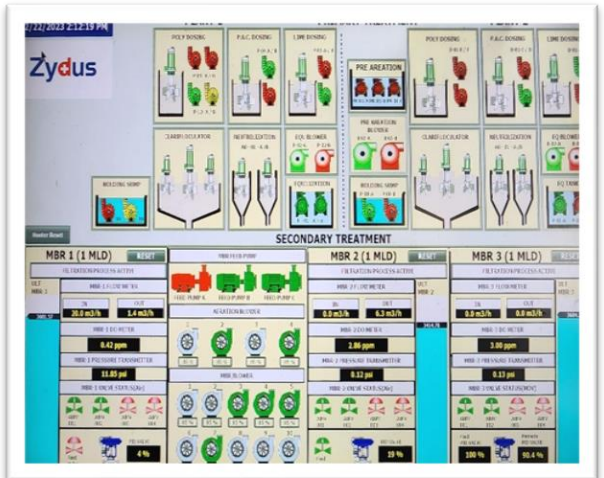
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Project Location:

Project Name : CETP Wastewater Recycling by ZIPL, Gujarat, India.
UWR Scope : RoU Scope 5
PCNMR Prepared on : 30/12/2023 and later revised on 06/01/2024.
Location of Project Activity : PHARMEZ Special Economic Zone, Zydus Infrastructure Pvt. Ltd., Village: Matoda, Taluka: Sanand, District: Ahmedabad, Gujarat.
Latitude : 22°52'49.25"N
Longitude : 72°24'23.60"E
Project Commissioning Year : 2006







Sr. No.	Name of the unit	No. of Units	Dimensions (m)	Design Flow (MLD)	Design Parameters	Remark
1	Equalization Tank - 1	01	15.00 X 10.00 X 3.00 + 0.50 FB	0.75	D.T. = 14.4 h	Adequate
2	Equalization Tank - 2	01	9.00 X 10.00 X 3.50 + 0.50FB	2.25	D.T. = 3.36 h	Adequate
3	Neutralization Tank - 1 & 2	02	2.70 X 2.70 X 1.50 + 0.50 + 0.30	0.75	D.T. = 42 min	Adequate
4	Neutralization Tank - 3 & 4	02	2.70 X 2.70 X 1.50 + 0.50 + 0.30	2.25	D.T. = 14 min	Adequate
5	Dosing Tank-1 & 2	02	1.50 X 1.50 X 1.00 + 0.30	0.75	--	--
6	Dosing Tank-3 & 4	02	1.00 X 1.00 X 1.00 + 0.30	2.25	--	--
7	Clariflocculator - 1	01	10.00 DIA X 2.50 SWD X 0.50 FB	0.75	D.T. = 6.3 h SOR = 9.6 m ³ /m ² . day	Adequate
8	Clariflocculator - 2	01	10.00 DIA X 2.50 SWD X 0.50 FB	2.25	D.T. = 2 h SOR= 28.7 m ³ /m ² . day	Adequate
9	Pre Air Chamber - 1	01	15.40 X 13.30 X 2.30 + 0.50	0.75	D.T. = 15.1 h	Adequate
10	Pre Air Chamber - 2	01	15.40 X 13.65 X 2.30 + 0.50	0.75	D.T. = 15.5 h	Adequate
11	MBR Basin - 1	02	6.40 X 4.30 X 2.60 + 0.50	0.75	D.T. = 4.6 h	Adequate
12	MBR Basin - 2	02	6.72 X 4.30 X 2.60 + 0.50	0.75	D.T. = 4.8 h	Adequate
13	Fine Screen - 1	01	5.00 X 3.00	0.75	--	--



Sr. No.	Name of the unit	No. of Units	Dimensions (m)	Design Flow (MLD)	Design Parameters	Remark
14	Fine Screen - 2	01	1.00 x 1.00	0.75	--	--
15	MBR Permeate Sump - 1	01	13.30 X 11.20 X 3.00 + 0.50	0.75	D.T. = 14 h	--
16	Sludge Sump	01	9.00 X 9.00 X 3.00 + 0.50 FB	3.0	--	--
17	Stores	01	15.00 X 10.00	--	--	--
18	Decanter Shed	01	10.00 X 6.00 x 3.50	--	--	--
19	Chemical Storage Area	01	14.00 X 6.00 x 3.50	--	--	--
20	Blower Room	01	17.00 X 5.00 x 3.50	--	--	--
21	RO Block	01	31.00 X 12.50	--	--	--
22	MEE Block	01	19.5 x 14	--	--	--
23	Offline Lagoon	01	5250 m ³	--	--	--
24	MCC /PLC/ Maintenance Room	01	31.00 X 10.00 X 4.50	--	--	--
25	Office / Laboratory Building	01	12.00 X 8.00	--	--	--
26	Fresh water Sump	01	14.00 X 14.00 X 2.50 + 0.50	--	--	--
27	Watchman Cabin	01	3.00 X 3.00	--	--	--
28	Toilet Block	01	9.00 x 3.00	--	--	--
29	Leachate Collection Tank -1	01	2.00 x 2.00	--	--	--
30	Leachate Collection Tank - 2	01	3.00 x 3.00	--	--	--
31	R.O. Reject Tank	02	10.00 X 10.00 X 2.75	--	--	--
32	MBR permeate Sump -2	1	11.00 x 6.72 x 2.80 + 0.50 FB	2.25	--	--
33	Double Decker MBR	1	8.00 x 5.2 x 6.00	--	--	--
34	PVA GEL Tank	1	6.00 x 5.2 x 6.00	1.5	D.T = 3.0 h	Adequate
35	Intermittent Holding Tank	1	2.00 x 2.00 x 1.9	1.5	D.T = 7.3 min	Adequate
36	MBR Permeate Tank -3	1	250 KL	3.0	--	--
37	RO Reject Tank-2	1	10.00 x 10.00 x 2.75	--	--	--
38	Activated Carbon Filter	1	3.3 x 2.2	3.0	--	--
39	Septic Tank	01	8.00 x 3.00 x 2.50 + 0.60	--	--	--






Sustainable Development Goals under the United Nation (UN-SDGs):

The project activity achieves the following key water and sanitation related Sustainable Development Goals under the United Nation (UN-SDGDs):

Sustainable Development Goals Targeted	Most relevant SDG Target/Impact	Indicator (SDG Indicator)
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 <p>13 Climate Action (mandatory)</p>	<p>13.2: Integrate climate change measures into national policies, strategies and planning.</p>	<p>Recycling and reusing wastewater is an effective solution for climate change adaptation because it helps mitigate the impacts of droughts, floods, and other extreme weather events that are becoming increasingly common due to climate change. The quantity of wastewater recycled and reused by the PP is the SDG indicator.</p>
 <p>1 - End poverty in all its forms everywhere</p>	<p>1.4: By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and <u>other forms of property, inheritance, natural resources</u>, appropriate new technology and financial services, including microfinance.</p>	<p>The PP prevents unequal distribution of natural groundwater resources -which <u>prevents poverty of natural economic resources</u> (groundwater). The PP ensures that the citizens of Gujarat get a chance to preserve their natural groundwater resources for future generations since PP recycling and reusing wastewater for gardening and captive processes, which is currently unutilized by the local industry. The PP could have alternately dug fresh borewells or used existing drinking water sources for their captive water and gardening requirements.</p>

<p>3 – Ensure healthy lives and promote well-being for all at all ages.</p>	<p>3.9: By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination.</p>	<p>The PP showcases how recycling and reusing wastewater can prevent depletion of natural water reserves and prevent water scarcity during droughts. The PP ensures water availability in water-scarce zones that help promotes healthy lives and well-being.</p>
<p>7 - Ensure access to affordable, reliable, sustainable and modern energy for all</p>	<p>7.a by 2030 enhance international cooperation to facilitate access to clean energy research and technologies, including renewable energy, energy efficiency, and advanced and cleaner fossil fuel technologies, and promote investment in energy infrastructure and clean energy technologies</p>	<p>The PP facilitate access to clean energy research and technology and promotes investment in energy infrastructure and clean energy technologies related to water and wastewater treatment.</p>
<p>11 - Make cities and human settlements inclusive, safe, resilient and sustainable.</p>	<p>11.A: Support positive economic, social and environmental links between urban, periurban and rural areas by strengthening national and regional development planning</p>	<p>The PP enhancing inclusive and sustainable urbanization via the project activity.</p>

 <p>6 - Ensure access to water and sanitation for all.</p>	<p>6.3: By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally.</p>	<p>The PP has showcased recycling and safe reuse of 4657 million liters within the industry during this monitored period.</p>
 <p>8 – Promote inclusive and sustainable economic growth, employment and decent work for all.</p>	<p>8.5: By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value.</p> <p>8.6 By 2020, substantially reduce the proportion of youth not in employment, education or training.</p>	<p>Number of jobs created by CETP</p> <p>Number of people trained.</p>
 <p>17 – Strengthen the means of implementation and revitalize the global partnership for sustainable development</p>	<p>17.7: Promote the development, transfer, dissemination and diffusion of environmentally sound technologies to developing countries on favourable terms including on concessional and preferential terms, as mutually agreed.</p>	<p>PP will monetize the water credits via the virtual water footprint market internationally.</p>



Scope:

The scope covers verification of RoUs from the project - CETP Wastewater Recycling by ZIPL, Gujarat, India, (UWR ID – 403)

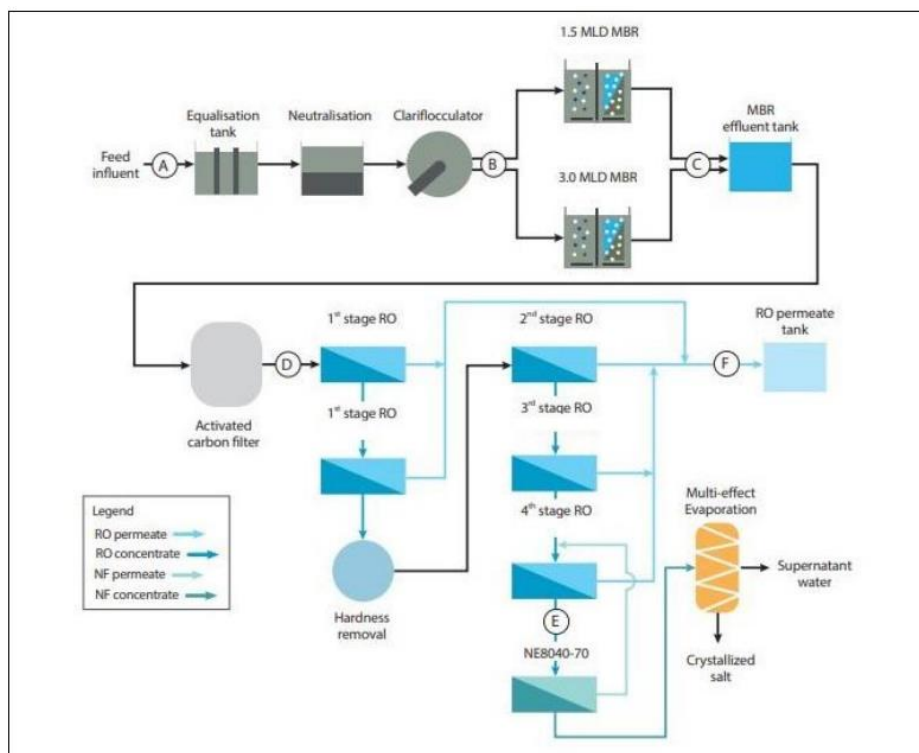
Criteria:

Verification criteria is as per the requirements of UWR RoU program for the scope – 5.

Description of project:

The project activity currently involves a single CETP unit of installed primary treatment capacity of 3 MLD while the secondary treatment capacity is 4.5 MLD. The main source of raw water supply is via 3 (three) borewells for the entire SEZ. The average daily withdrawal of groundwater over the last three years is between 151.7 - 42.2 m³/day.

Treatment Process



CETP Process Flow Chart



The reported average water consumption is 42.2 m³/day while the average wastewater generation is 41.5 m³/day (period October 2022-March 2023).

Member units do not have the requirements to segregate the sewage and effluent wastewater, hence the CETP receives the sewage from member units along with industrial wastewater effluent. Average domestic wastewater is 10 KL/d. The PP ensures that effluent received from member units are well within the prescribed inlet GPCB norms. If the wastewater effluent is not confirming to these standards it is sent back to the member units. CETP recycled wastewater effluent is sent to member units via pipelines to reuse in various applications such as in cooling towers and boilers. Magnetic flow meters are provided at the inlet and outlet of the CETP and records of the same are maintained and being submitted to the GPCB regularly.

Water is metered through the entire process of extraction and delivery within the SEZ to ensure no wastage of water and further wastewater treatment for reuse. Wastewater is metered at every stage of processing that take place within CETP. After recycling the wastewater, it is distributed back to industries for captive water requirements, horticulture and landscape irrigation purposes.

The CETP provides primary, secondary and tertiary wastewater treatment along with Multiple Effect Evaporator (MEE) technology. The recycled effluent is reused by the member units for captive industrial cooling/boiler purposes and is also used within the SEZ for gardening, horticulture and landscaping purposes.

High TDS effluent stream is directly treated in the RO and further in the MEE whereas the low TDS effluent stream in the plant premises is first treated in the CETP followed by RO and MEE.

INLET NORMS FOR MEMBERS UNITS

PARAMETERS	CETP INLET NORMS
pH	6 to 8
Suspended solids	300 mg/l
Oil & Grease	5 mg/l
Phenolic Compound	0.3 mg/l
Ammonical Nitrogen	50 mg/l
BOD (5 dayat 20°C)	400 mg/l
COD	850 mg/l
Fix Dissolved Solids	2100mg/l





CETP has online pH meter, TDS meter, COD & BOD meter and TOC meter at the outlet and all meters are connected with the server of Gujarat Pollution Control Board and Central Pollution Control Board for compliance. Online flow meters are installed at each stage of treatment. Minimum one sample is collected in one shift and tested.

Sampling Date	: 16-03-2023		
Sample drawn by	: GITCO Ltd		
Type of sample	: Grab		
Parameter	Results		
	I	II	III
pH	7.44	7.38	7.04
FDS	1872	1192	376
TSS	134	22	BDL
COD	760	80	BDL
BOD	326	21	BDL
Ammonical Nitrogen	10.8	4.8	4.0
Note: All parameters except pH and Colour are expressed in mg/L.			
I	: Equalization tank		
II	: PVA Gel O/L		
III	: R.O. Permeate (final O/L)		



The PP has installed SCADA (Supervisory Control and Data Acquisition) online system to monitor and control each movement of water supplied to industries within the project boundary in real time. Through SCADA, monitoring of infrastructure facilities such as power, transport, water, waste, etc. take place.

Water supplied is retained in over-head tank and further metered when distributed to the individual industries for their use. After the required consumption of water by each industrial unit, all units are required to treat their sewage water following the guidelines to dispose wastewater. This partially treated water is collected in tankers and brought to CETP for further treatment.

Water is metered through the entire process mentioned above to ensure no wastage of water and further wastewater treatment for reuse. Wastewater is metered at every stage of processing that take place in CETP. After recycling the wastewater, it is distributed back to industries for captive water requirements, horticulture and landscape irrigation purposes.



Latest sampling CETP Lab results 2023

Extent of Deviation from CETP Inlet Limit:					
Parameter	CETP Inlet Limit	A	% D	B	% D
pH	6.5-8.5	7.00	*	7.44	*
FDS	2100	2490	18.6	1872	*
TSS	300	44	*	134	*
COD	850	272	*	760	*
BOD	400	63	*	326	*
Ammonical Nitrogen	50	7.6	*	10.8	*

Note : All parameters except pH are expressed in mg/L
BDL : Below Detectable Limit
* : Indicates the concentration is within the permissible limit as per the above stated Water Consent
A : Second Monitoring on 30-11-2022
B : Third Monitoring on 16-03-2023
% D : % Deviation



This CETP is backed up by 270 kWh solar power generator system thus further contributing to lowering of the carbon footprint within the project boundary. Quality of treated effluent is monitored continuously for TOC, TDS, COD, BOD, flow & pH on SCADA system; data is recorded and maintained. Also samples are collected and tested as per frequency.

Logbook is being maintained and also manifest is generated for effluent quantity received from member units for the following parameters:

- Quantity and quality of effluent received.
- Quantity and quality of effluent supplied to member units for recycle/reuse.
- Quality of effluent at each stage of treatment
- Chemicals used at each stage of treatment
- MLSS / MLVSS & DO concentrations in Aeration Tanks
- Quantity of sludge generated

In the absence of the project activity, the PP could have extracted an equivalent amount of fresh groundwater from the installed bore wells within the project boundary that would have depleted the local groundwater resources and/or continued to use existing drinking water resources in the surrounding area and/or discharged the CETP effluent without recycling the same for gainful captive purposes.

The project activity qualifies under the UWR RoU program since the PP has undertaken water conservation measures to recycle and reuse wastewater for gainful end use.



Hence the project activity is pre-approved under the UWR RoU program for the following scope:

- Scope 5: Conservation measures taken to recycle and/or reuse water, spent wash, wastewater etc across or within specific industrial processes and systems, including wastewater recycled/ reused in a different process, but within the same site or location of the project activity. Recycled wastewater used in off-site landscaping, gardening or tree plantations/forests activity are also eligible under this UWR Scope.

Baseline scenario

The baseline scenario is the situation where, in the absence of the project activity, the PP would have one or all of the below options:

1. installed multiple bore wells within the project boundary which would have depleted the local groundwater resources (aquifers); and/or
2. diverted existing safe drinking water resources from the surrounding residential area; and/or
3. discharged the CETP effluent without further treatment, recycling and reuse.

Hence the baseline scenario is:

“the net quantity of treated CETP effluent / wastewater that would be discharged directly into the local drain/sewer without further being recycled and/or reused daily post treatment per year”.

Level of Assurance:

The verification report is based on onsite audit, information collected through interviews, supporting documents provided during the verification, Project Concept Note - Monitoring Report (PCNMR) submitted to SQAC. The verification opinion is assured provided the credibility of all the above.

Verification Methodology:

Review of the following documentation was done by SQAC Verifier, Mr. Santosh Nair who is experienced in such projects.

- Project Concept Note / Monitoring Report (PCNMR)
- Commissioning Certificate



- Calibration Certificates
- Master Plan Layout
- Daily Record Sheet
- Plant log books
- Data provided upon request of all the documents of the related project.

Sampling:

Not applicable

Persons interviewed:

1. Mr. Kapil acharya : General Manager – Operations, M/s Zydus Infrastructure Pvt. Ltd.
2. Mr. Bhavesh Thaker : Manager, M/s Zydus Infrastructure Pvt. Ltd.

Corrective Action Requests (CARs)

Corrective Action Requests (CARs) and their resolutions are listed below:

There is only 1 CAR:

CAR 1:

The yearly quantity of treated water is not matching as per the supporting certified documents for yearly treated and issued water.

Response from Project Participant

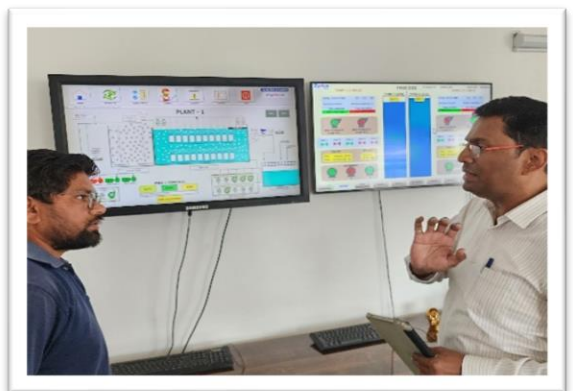
The correction has been made in the ER sheet and accordingly PCNMR (V02) has been released after incorporating the related corrections.

Conclusion by Verification Team

Verified Monitoring Report (V02) for correction and found to be matching as per requirement.

Hence

Corrective Action Request CAR-1 is closed.





Piramal Pharma Limited (Plot No.19)
 Plot No.19, PHARMEZ,
 Sarkhej Bavla Road, Matoda, Ahmedabad-382213

TO WHOMSOEVER IT MAY CONCERN

This is to certify that we have sent effluent water to the C-ETP maintained by Zydus Infrastructure Pvt Ltd. and received treated water from them as per the below mentioned year wise details since 2014:

(Data in KL)

Year	Effluent water sent to C-ETP	Treated water received from C-ETP	Treated water used for	Remarks
2014	6860	2300		
2015	6760	2244		
2016	6560	3678		
2017	6980	1462		
2018	8300	2223		
2019	8309	4549		
2020	9502	4053		
2021	9875	4318		
2022	9995	5881		
2023				
Till Nov 23	9259	7033		

Majority used in Boiler & Cooling tower

Signature
 Authorized Signatory

Piramal Pharma Limited (Plot No.19)

Date: 25/12/23



Company Seal

Anneal Pharmaceuticals Pvt Ltd
 Plot Nos.15,16,17, S.P.24 & S.P.25, PHARMEZ,
 Sarkhej Bavla Road, Matoda, Ahmedabad-382213

TO WHOMSOEVER IT MAY CONCERN

This is to certify that we have sent effluent water to the C-ETP maintained by Zydus Infrastructure Pvt Ltd. and received treated water from them as per the below mentioned year wise details since 2014:

(Data in KL)

Year	Effluent water sent to C-ETP	Treated water received from C-ETP	Treated water used for	Remarks
2014	42800	9011		
2015	55640	18506		
2016	107460	11889		
2017	122320	23844		
2018	116080	55409		
2019	145372	19523		
2020	158755	14190		
2021	181461	18159		
2022	186564	23752		
2023				
Till Nov 23	176925	23218		

Majority used in Boiler & Cooling tower

Signature
 Authorized Signatory

Anneal Pharmaceuticals Pvt Ltd

Date: 25/12/23



Company Seal



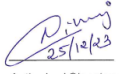
Mylan Laboratories Limited
Plot Nos.20 & 21, PHARMEZ,
Sarkhej Bavla Road, Matoda, Ahmedabad-382213


TO WHOMSOEVER IT MAY CONCERN

This is to certify that we have sent effluent water to the C-ETP maintained by Zydus Infrastructure Pvt Ltd. and received treated water from them as per the below mentioned year wise details since 2014:

(Data in KL)

Year	Effluent water sent to C-ETP	Treated water received from C-ETP	Treated water used for	Remarks
2014	15220	3663		
2015	17800	5868		
2016	19800	7110		
2017	21020	1605		
2018	18300	5529	Majority used in Boiler & Cooling tower	
2019	18701	7163		
2020	19260	1625		
2021	15198	278		
2022	19777	2337		
2023				
Till Nov 23	21870	2838		


 Authorized Signatory
 Mylan Laboratories Limited


 Company Seal

Date: 25/12/23


Biotech Vision Care Pvt Ltd
Plot No.4, PHARMEZ,
Sarkhej Bavla Road, Matoda, Ahmedabad-382213


TO WHOMSOEVER IT MAY CONCERN

This is to certify that we have sent effluent water to the C-ETP maintained by Zydus Infrastructure Pvt Ltd. and received treated water from them as per the below mentioned year wise details since 2014:

(Data in KL)

Year	Effluent water sent to C-ETP	Treated water received from C-ETP	Treated water used for	Remarks
2014	0	0		
2015	0	0		
2016	0	0		
2017	0	1722		Majority used in Boiler & Cooling tower
2018	140	0		
2019	2983	4081		
2020	3052	0		
2021	4758	628		
2022	4676	0		
2023				
Till Nov 23	4627	0		


 Authorized Signatory
 Biotech Vision Care Pvt Ltd.


 Company Seal

Date: 25/12/23

Corrective Action Requests (CARs)

Not applicable as no non-conformities has been evidenced.

Applied methodologies:

Verification criteria is as per the requirements of UWR RoU program for the scope – 5.

Applicability of double counting emission reductions

Currently not applicable for water credits.

Issuance Period: (09 years, 11 months) – 01/01/2014 to 30/11/2023

According to the UWR RoU Standard principles, the project activity accomplishes the following:

- ❖ Increases the sustainable water yield in areas where over development has depleted the aquifer
- ❖ Collect unutilized water or rainwater and preserve it for future use
- ❖ Conserve and store excess water for future use



The net quantity of treated water in KL used is measured via flow meters installed at the site.

Year	Raw Water	Effluent	Recycled Quantity supplied to Member unit	Recycled Quantity reused by ZIPL	Treatment Process Loss
2014	423816	180587	55633	122745	2209
2015	455017	236360	78448	144660	13252
2016	581547	329320	84209	230425	14686
2017	626369	426840	106556	304450	15834
2018	670358	507590	188803	300420	18367
2019	946139	661699	157695	465161	38843
2020	971686	637995	181472	424210	32313
2021	929116	755175	203183	527672	24320
2022	988090	781398	178591	570385	32422
2023 till Nov'23	915960	671915	169738	482830	19347
Total	75,08,098	51,88,879	14,04,328	35,72,958	211593
			49,77,286		

Annual RoU calculation:

Year	Total RoUs (1000 litres) /yr UWR Cap (1 Million RoUs/yr)
2014	178378
2015	223108
2016	314634
2017	411006
2018	489223
2019	622856
2020	605682
2021	730855
2022	748976
2023 till Nov'23	652568
Total	49,77,286



Conclusions:

Based on the audit conducted on the basis of UWR Protocol, which draws reference from UWR RoU program, the documents submitted during the verification including the data, Project Concept Note (PCNMR), SQAC is able to certify that the Water Credits from the project -: CETP Wastewater Recycling by ZIPL, Gujarat, India, (UWR ID – 403) for the period 01/01/2014 to 30/11/2023 amounts to **49,77,286 RoUs**

Santosh Nair
Lead Verifier
(Signature)



Praful Shinganapurkar
Senior Internal Reviewer
(Signature)

Date: 06/01/2024