



**CENTRAL POLLUTION CONTROL BOARD
ZONAL OFFICE (SOUTH)
BENGALURU**

Report on M/s KINFRA Textile Centre, Kannur dist., Kerala

1.	Name/ address of CETP/ company	KINFRA Textile Centre Nadukani, Pallivayal P.O., Taliparamba, Kannur Dist. – 670 142 Kerala	
2.	Area occupied by CETP (plot area)	1 acres	
3.	Total no. of staff (including operational & skilled persons)	2 persons	
4.	Contact person (Name, Designation, and Contact No, FAX, e mail)	Sh. K. Anoop Balan, Asst. Manager 0460 – 2226166, 2870406, 2976566 ktckannur@gmail.com	
5.	Status of CETP	operational	
6.	Consent & Authorization	The unit has obtained only consent to establish and applied for consent to operate .	
7.	Industrial area/estate (s) connected to CETP	KINFRA Textile Centre	
8.	Type of industries in the connected industrial areas		
	Industrial area/estate	Type of industries	Number of industries
	KINFRA	Common dye house	1 (yet to start operation)
		Shabri cotton dye house	1
		Mybra Lingeri Pvt Ltd.	1
	Number of member industries of CETP		2 nos. operational
9.	Method of collection of effluent (pipeline/tanker)	Pipeline	
10.	Details of flow meters	Flow Meter provided at Outlet.	
11.	Treatment capacity	7.52 MLD	
	Design flow of CETP	31.35 m ³ /hr	
12.	Wastewater treated	1.5 MLD	
13.	Wastewater if bypassed in CETP from treatment:	No	

14. Treatment units and dimensions			
	Name of the unit	Numbers	Dimension in m
	Screen Chamber	1	1.45 x 0.8 x 0.8 depth + 0.5FB
	Collection Tank	1	20 x 11.25 x 2 SWD + 0.5
	Flash Mixer	1	1.45 x 1.45 x 2 SWD + 0.3
	Flocculator	1	2.85 x 2.85 x 2.5 SWD +0.5
	Primary Clarifier	1	8 dia x 3 SWD + 0.5
	Aeration Tank	1	18.85 x 18.85 x 3 SWD + 0.5
	Secondary Clarifier	1	9 dia x 3 SWD + 0.5
	Clarifier water collection tank	1	10 x 6 x 3 SWD + 0.4
	Treated water sump	1	15 x 10 x 2.4 SWD + 0.5
	Stabilization tank	1	1.4 x 1.4 3 LD + 0.5
	Lime preparation tank	2	2 m ³
15. Details of chemicals used			
	Name of chemical	Quantity	
	lime	10 kg	
	Alum	20 kg	
	Poly electrolyte	0.10 kg/kl	
	Ferric sulphate		
	Sodium hypochlorite	1 kg/kl	
16.	Primary sludge management system <ul style="list-style-type: none"> • Primary sludge generation rate • Details of any other methods for sludge thickening • Primary sludge disposal 	No data available Filter press Stored in HDPE bags and disposed to TSDF	
17.	Method of Treated wastewater disposal	Consented to discharge on land/irrigation, gardening, green belt development and remain shall be used for process.	
18.	Inspection Team	Sh. R. Rajkumar, Sc C Sh. Deepesh V, SSA Sh. S. Seenivel Raj, JLA	
19.	Date of Inspection	18.03.2015	

Observations:

- The CETP is commissioned in KINFRA textile centre having 3 member units, in which one unit yet to start its operation. The CETP has installed capacity of 7.25 MLD in which about 1.5 MLD of effluent is received from the member units. The treatment plant was not in operation due to maintenance.

- The treatment system in the CETP includes physio-chemical and biological treatments, which consists of screen chamber, collection tank, flash mixer, flocculator, primary clarifier, Aeration, Secondary clarifier, carbon and sand filter and filter press.
- Treated effluent should be used for land/irrigation, gardening, green belt development and remain shall be used for process as per the consent to establish issued by KSPCB but the unit is discharging the treated effluent in their own SLF where the treated effluent is penetrated into ground, which shows the improper construction of SLF.



SLF

- The sludge generated in the treatment plant is stored and disposed to common TSDF.



- Since the plant was not in operation treated effluent was collected from storage tank and SLF.

Parameters	Treated effluent collection tank	SLF	KSPCB Standards
pH	8.3	8.2	5.5 – 9
TSS	90	108	100
TDS	5546	5424	2100
BOD	113	56	30
COD	340	232	250
O & G	3.0		10
Phenolic compounds	BDL		1
Sulfide	1.7		2
Sulphate	1076		1000

* All values are in mg/l except pH

- The treated water is not meeting the standard for discharge in case of TSS, TDS, BOD & COD.
- No records are being maintained for chemical consumption, flow meters reading, energy meter reading and sludge generation & storage.

Recommendations:

CETP shall be directed to comply/implement the following:

- To modify/upgrade the treatment plant and install the tertiary treatment to meet the quality of treated effluent discharge as per prescribed norms and same time necessary steps shall be taken to achieve ZLD.
- To stop immediately the discharge of treated effluent into SLF. The ground water study is to be taken up to observe any contamination of ground water. If so necessary steps are to be taken for remediation.
- Proper records shall be maintained for chemical consumption, flow meters reading, energy meter reading and sludge generation & storage.
- To obtain valid consent to operate from KSPCB.

(R. Rajkumar)
Scientist C

(S. Suresh)
Scientist D