



## Know Your Compliance Reference Manual

This manual is provided to purchasers of KYC. KYC is right protected web application and the data entered by the user will not be misused or leaked. MPCB being the partner of KYC will be able to view the company details entirely. Efforts are made to make this manual accurate. KYC disclaims for inaccuracies or omissions that may have occurred. The web application has obtained copy right.



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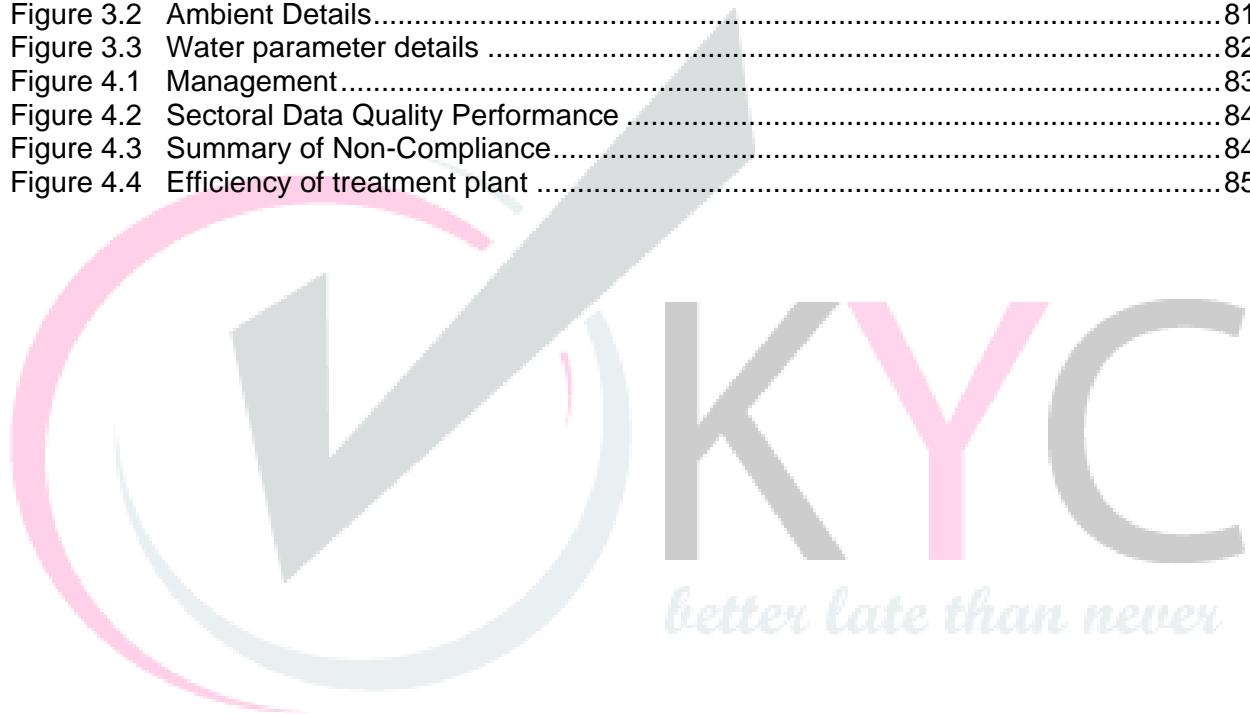


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Do you know KYC..!!!

**“Know Your Compliance”** is an Industry based application developed to know if the Industry complies all the Environmental norms. KYC is having MPCB as its promotional partner. The application involves three users Management, Environmental Officer and Third Party. Elaborating what actually KYC is, here the Industry has to submit its Consent to Establish and Consent to Operate. Moving forward Industry has to submit its daily generation (Production, Air, Water, Solid waste details) to know whether the Industry exceeds its Consent limit.

#### **Admin:**

The industry login on KYC web server will be commenced by admin. Admin has right to create users (Three users – Management, Environmental Officer and Third Party).

#### **Environmental Officer:**

The officer will submit Consent to Establish, Consent to Operate and daily data in sequence. Submitting the details, officer will be able to view environmental compliances like Environmental Statement Return, Water Cess Return, Hazardous Waste Return, Hazardous waste manifest.

Submitted data will be delineated in Environmental Statement Return, Water Cess Return, Hazardous Waste Return, Hazardous waste manifest thus showing Environmental Compliances.

#### **Third Party:**

Third party can be external or internal committee who will fill all the monitoring details (Stack, Ambient air, Water analysis (Effluent and Sewage))

#### **Management:**

Management is the highest authority who can only view data filled by Environmental Officer and Third party in graphical format.

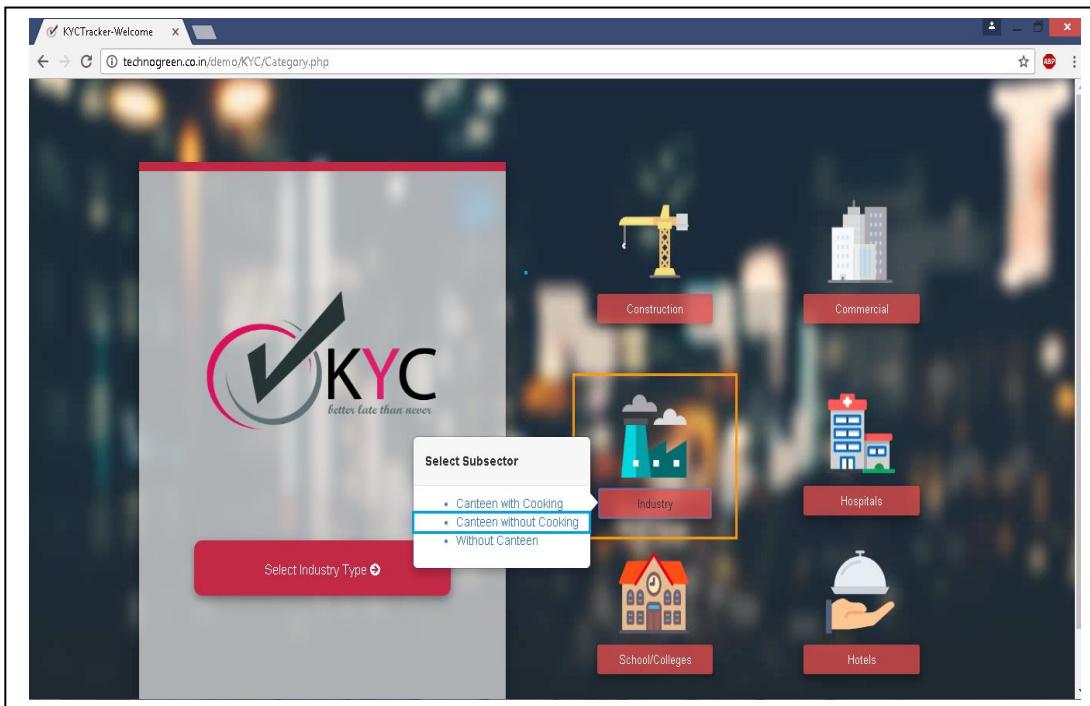


## KYC Better Late Than Never

Once KYC is installed on your server, Admin will be provided a url through which he will login. Enter given url on browser (Google Chrome, Mozilla Firefox).

Select the Industry Type and sub type displayed on page. The types and subtypes displayed are as follows:

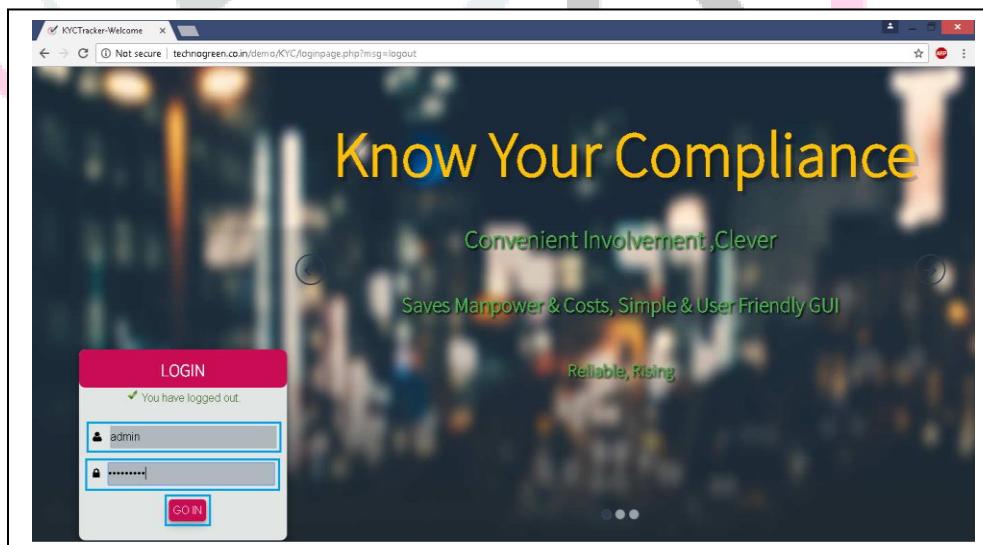
1. Construction
  - Residential /Construction
2. Commercial
  - Offices
  - Cinema Concert halls and theaters
  - Stadium
3. Industry
  - Canteen with cooking
  - Canteen without cooking
  - Without Canteen
4. Hospitals
  - Hospitals (Including laundry)
  - Up to 100 beds
  - More than 100 beds
  - Nursing homes and medical quarters
5. Educational Institute
  - School with Hostels
  - Schools without Hostels
6. Hotels
  - Hotels with lodging facility
  - Hotels without lodging facility
  - Up to 4 star
  - 5 star and above



**Figure 1.0      Select Industry Type**

### Select Industry Type and sub-category

Selection of Industry type and sub type will redirect you to Login page. Enter the administration login provided to you during Installation of KYC.



**Figure 1.1      Enter Username and Password**



## 1. Admin

Once you login the admin page, KYC video will appear which will enlighten all the features of KYC. After video todo list will appear on screen. It will give you following details

### To Do List

- **Create Company Profile** – Admin needs to submit company details.
- **Create users** – Mandatory three should be formed (additional users can also be created if admin wishes to create), admin himself can play the role of all three users but he should have different accounts
- **Mail to Each Individual** – Clicking on Mail to each individual, will send created users mail regarding users roles, responsibility along with user id and password
- **View Users** – This option is provided so that user can view created users
- **Delete Users** – Selecting particular user will help delete desired user

### Who is Admin?

- a. During installation of KYC, user id and password will be provided to admin
- b. Once the Admin logins, he should “Create Company Profile” where he should fill Company information.
- c. Admin has right to create three users:
  1. Management
  2. Environmental officer
  3. Third Party

It is mandatory to create three users, in case if admin wants to add +1 user for each then at the end after creating these users you can add another user by selecting the designation you want

4. Admin can even play the role of any of the user. He can be one of the users or can play the role of all users i.e Management, Environmental Officer, and third party but, it is mandatory to have different user ID and password for each.



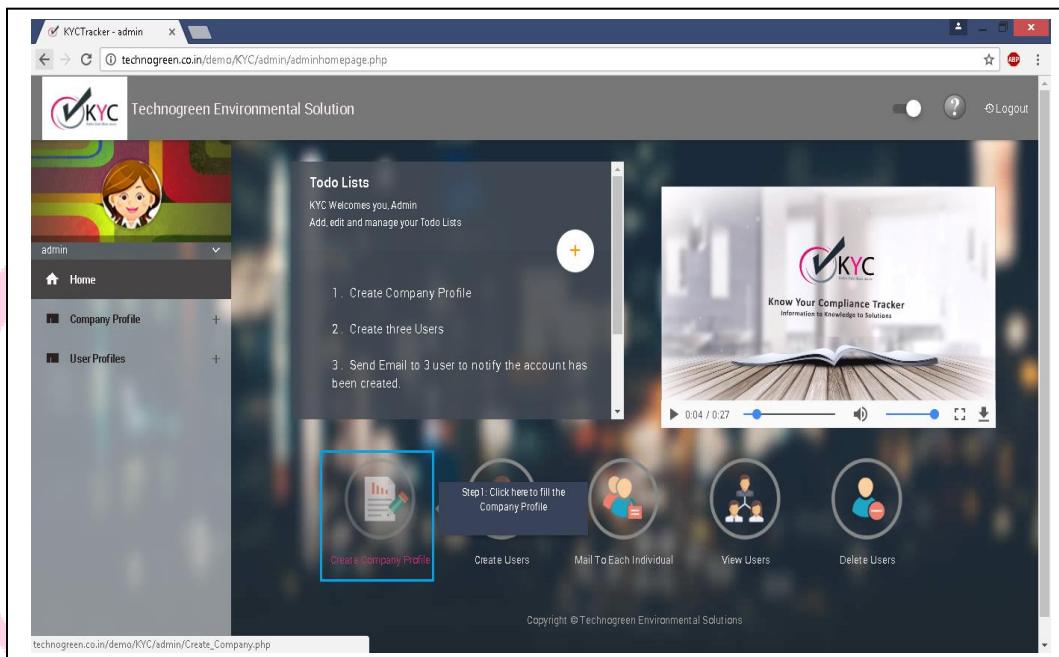
5. Admin has right to create as well as delete user.

The admin will not be able to view any other data that will be filled by other three users.

## 1.0 Create Company Profile

Once you Login the “Admin Page” click on “Create Company Profile” where admin needs to submit company details.

- a. As per company location, the MPCB Regional office should be selected
- b. Industry category, Industry scale should be specified as given in Consent



**Figure 1.3      Create Company Profile**

### 1.1 Create Users

Once Company Profile is created, Click on “Create User” where admin needs to create three users. The first user displayed will be Management then Environmental Officer and Third party followed by additional users (not mandatory).Select designation accordingly.

#### 1.1.1 Management

The management is the top authority who will supervise all the work done by Environmental Officer and Third Party.



Management will be provided outputs of Hazardous Waste Return, Water Cess, ESR, Statistics, performance and graphs.

Note: Management can only view the data submitted by other users

The screenshot shows a web-based administration interface for KYCTracker. On the left, there's a sidebar with a user icon and the name 'admin'. The main area is titled 'Technogreen Environmental Solution' and contains a 'CREATE USER' form. The form fields include:

- Employee Name:** Ajay Ojha
- Address:** Plot No.25, MG Road, Pune
- Designation:** Management
- Contact:** 9586487595
- Email:** ajay.ojha@gmail.com
- Username:** ajay@ojha
- Password:** \*\*\*\*\*

A note on the right side of the form states: "Management is the one who will Review / Supervise the work. He will be able to view outputs of Hazardous waste Return, Water Cess, ESR, statistics, performance and graph". There are 'CANCEL' and 'SUBMIT' buttons at the bottom of the form.

**Figure 1.4      Management**

### 1.1.2 Environmental Officer

The Environmental Officer will be looking towards the Environmental aspects of the Industry to check non-compliances created in Industry

Environmental Officer will submit Consent to Establish / Operate (all the activities should be similar to those given in consent), daily input data and Hazardous waste



KYCTracker - admin

Not secure | technogreen.co.in/demo/KYC/admin/addUsers\_officer.php?msg=success

**Technogreen Environmental Solution**

**CREATE USER**

Note: Admin is the one who will "Create Company Profile". He will create minimum three users :

1. Management  
2. Environmental Officer  
3. Third Party

The Admin has right to :  
Branch  
SELECT BRANCH

**Employee Name**  
Sanika Shetye

**Address**  
Plot No 205      Shivajinagar      Pune

**Designation**  
Environmental Officer      Contact: 9596487595      Email: sanika.shetye@gmail.com

**Username**  
sanika@shetye      Password: .....

**SUBMIT**

technogreen.co.in/demo/KYC/admin/addUsers\_officer.php?msg=success#

**Figure 1.5      Environmental Officer**

### 1.1.3      Third Party

Additional users can be added by clicking "Create User"

KYCTracker - admin

Not secure | technogreen.co.in/demo/KYC/admin/addUsers\_tp.php?msg=success

**Technogreen Environmental Solution**

**CREATE USER**

Note: Admin is the one who will "Create Company Profile". He will create minimum three users :

1. Management  
2. Environmental Officer  
3. Third Party

The Admin has right to :  
Branch  
SELECT BRANCH

**Employee Name**  
Vani Reddy

**Address**  
Plot No 125      Paul Road      Pune

**Designation**  
Third Party      Contact: 8486487595      Email: vani.reddy@gmail.com

**Username**  
vani@reddy      Password: .....

**SUBMIT**

technogreen.co.in/demo/KYC/admin/addUsers\_tp.php?msg=success#

**Figure 1.6      Third Party**



## 1.2 Mail to each user

Mail to each user will intimate all the users their designation, roles, login id and password.

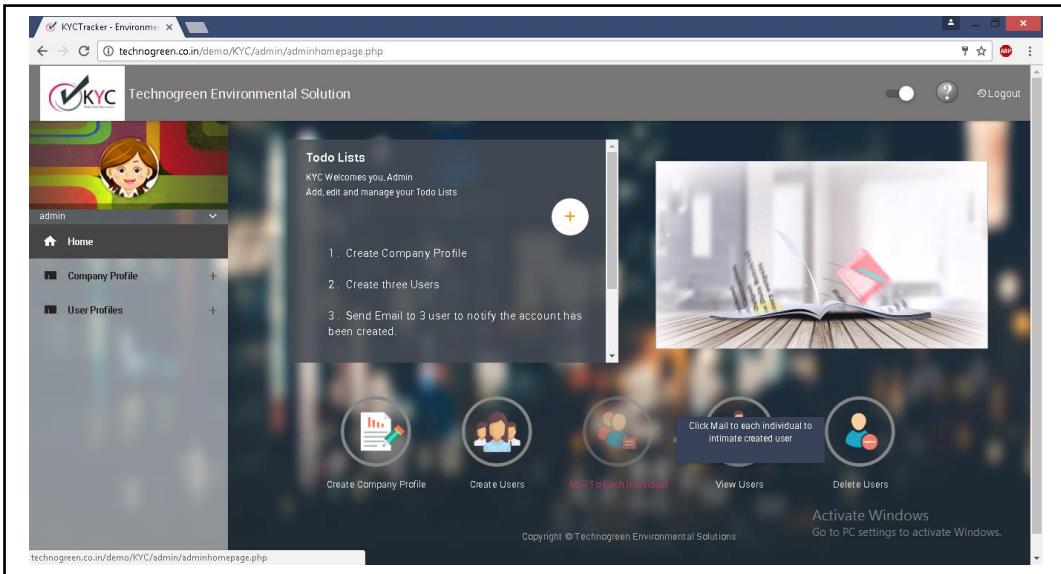


Figure 1.7 Mail to Each User

## 1.3 View Users:

Clicking on "View Users" admin will be able to view the users he has created. As given in Figure 1.8

## 1.4 Delete Users:

If Admin wishes to delete/ remove any user, click on desired user.

**Note:** Only admin has the right to create, view and delete users



ID	NAME	DESIGNATION	COMMANDS
2	Ajay Ojha	Management	Delete
3	Sanika	Environmental Officer	Delete
4	Veena	Third Party	Delete

**Figure 1.8** View and Delete users

## 1.5 User Profile

To upload basic information, click on View Profile under drop down arrow. Admin needs to submit basic information as given in Figure 1.9. Uploading the Basic Information is not mandatory.

## 1.6 Logout

Logout option is provided at extreme top.

Basic Information	
Full Name	Administration
Gender	Female
Birthday	26/10/2016
Marital Status	Married
Designation	Admin

Contact Information	
Address	NA, NA, NA
Mobile Phone	NA
Email Address	NA



Figure 1.9 User Profile and Logout

## 2. Environmental Officer

The Environmental Officer has following responsibilities

- Fill Consent Form
- Fill Daily Input Data
- Hazardous Manifest
- Compliance Forms

### Who is Environmental Officer?

The Environmental Officer is the one who will fill Consent to Establish, Consent to Operate, Daily input and water inventory data. Officer will be able view company profile created by admin. Officer does not have any right to make changes in Admin's work

### View Company Profile

Once the login takes place as Environmental Officer, Menu will be displayed where The Environmental Officer will be able to view Admin's work by the Admin by clicking "View Company Profile". Officer cannot do any change in Admin's work.

Depending upon Industry Type Consent will be changed.

Figure 2.0 Environmental Officer Home Page



## 2.1 Consent to Establish

As given in Todo List, the officer needs to fill Consent. Click on “Consent” to upload Consent to Establish details

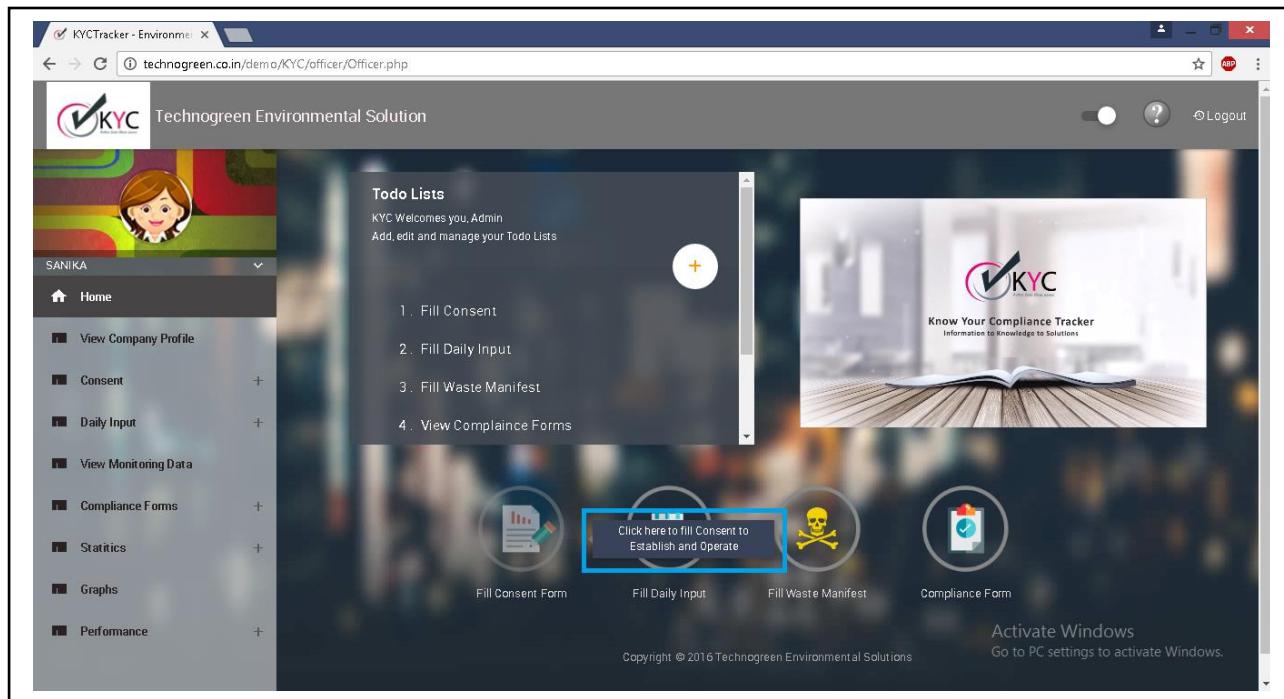


Figure 2.1 Consent to Establish

After clicking on Consent, **Figure 2.2** will appear.

- Click **YES** if the industry is having “Valid Consent to Establish for existing Consent to Operate”. Submit Consent to Establish Details as displayed. The information submitted should be of Consent granted by MPCB.
- If the industry does not have “Valid Consent to Establish for existing Consent to Operate.” Click **NO**, another question; “Do you have valid Consent to Establish for Expansion” will be displayed. Click Yes if the industry has Consent to Establish for Expansion or else select No. The Consent to Establish and Operate will be displayed.



KYC Tracker - Environment X

technogreen.co.in/demo/KYC/officer/CreateConsent.php?msg=create

Logout

**Technogreen Environmental Solution**

**FILL CONSENT DETAILS**

Do You Have Valid Consent to Establish for Existing Consent to Operate?

Yes  No

1. Click Yes if you have Consent to Establish for expansion  
2. Click No if you don't have a Consent to Establish for expansion

Consent Type  
Consent to Establish

Consent Number (Write consent number as specified in Consent granted from MPCB)

BOJD/APC/EIC No. PN-950-10E-CC

New Issue Date 07/02/2017 Valid Upto 25/08/2017

Gross CI 500 Crore Number of Staff 22 Number of Worker 6

Total Plot Area 40000 SQ. M. Total Built Up Area 25000 SQ. M. Open Space Available 560 SQ. M.

Total Green Area 5280 SQ. M. Consent Copy:

CANCEL SUBMIT

Activate Windows  
Go to PC settings to activate Windows.

Figure 2.2 Consent to Establish Details

KYC Tracker - Environment X

technogreen.co.in/demo/KYC/officer/CreateConsent.php?msg=create

Logout

Technogreen Environmental Solution

SANJAYA

**FILL CONSENT DETAILS**

Do You Have Valid Consent to Establish for Existing Consent to Operate?

Yes  No

1. Click Yes if you have Consent to Establish for expansion  
2. Click No if you don't have a Consent to Establish for expansion

Do You Have Valid Consent to Establish for Expansion?

Yes  No

Consent Type  
Consent to Establish

Consent Number (Write consent number as specified in Consent granted from MPCB)

BOJD/APC/EIC No. PN-950-10E-CC

New Issue Date 07/02/2017 Valid Upto 25/08/2017

Gross CI 500 Crore Number of Staff 22 Number of Worker 6

Total Plot Area 40000 SQ. M. Total Built Up Area 25000 SQ. M. Open Space Available 560 SQ. M.

Total Green Area 5280 SQ. M. Consent Copy:

CANCEL SUBMIT

Figure 2.3 Consent to Establish with Expansion

The data to be entered in Consent to Establish / Operate is:

- Consent Number is given at the Extreme top of Consent granted by MPCB
- The “Issue date” and “Valid up to” date is also given in Consent



- Gross CI : The Capital Investment which was given while obtaining Consent from MPCB should be entered
- As per laws the Total Green area should be 33% of Total Open Space.
- After filling all the details upload the scanned Consent copy granted by MPCB

In case if the consent is under **Construction Type**, Officer needs to add;

- Total Residential population
- Total Commercial Population

If the Consent is under **Commercial Type**, having theater then Officer needs to provide:

- Capacity of Theater [Total Number of people that could be acquired]
- No. of staff
- No. of shows that will take place.

If the consent is for **Hospital**, officer needs to submit;

- No. of staff
- No. of Beds

If consent is for **Educational Institute**, then officer needs to submit

- No. of Staffs
- No. of Students

For **Hotel** consents the details required are:

- No. of Staff
- No. of Workers
- No. of Key(Rooms)

After submitting the Consent details, the officer needs to fill-

- Production Details
- Air Environmental
- Water Environment
- Solid waste Environment

#### A      **Production Details [Applicable only for Industry]**

Officer must take care that all the details entered should be as given in the Industry's Consent. The production details are further subcategorized as:



- Product Details
- Byproduct Details
- Raw Material Details

### **Product Details**

- Click on Product Details, and select the “Number of Products you want to add” as per Consent
- Accordingly, Submit the Product name along with its quantity and Unit of Measurement. Kindly note that exact quantity along with its Unit should be submitted

### **Byproduct Details**

- Click on byproduct details, and select the “Number of Byproduct you want to add”
- Enter Name of each byproduct along with its quantity and Unit of Measurement.

### **Raw Material Details**

- Click on Raw Material Details, and select the No. of Raw Materials used in Industry.
- Enter name of Raw Material along with its Consent quantity and unit of measurement.

After submitting Production details, automatically Air Environment option will be displayed.



Name	Quantity	Units
Chassis	250000	NOS/YEAR
Silencer	200000	NOS/YEAR
Brake Assembly	50000	NOS/YEAR
Air Cooler	1000000	NOS/YEAR
Fuel Tank	50000	NOS/YEAR

Figure 2.4 Consent Data

## B Air Environment

The Air Environment is further sub categorized as:

- Fuel
- Stack
- Ambient

### Fuel Details

Fuel is required for various operations in industry. The Quantity of fuel is described in Consent.

- Select “Number of fuel you want to Add” and enter the fuel details along with its consent quantity and unit of measurement

### Stack Details

- “Stack Details” will be displayed where two options are provided “Stack Details” and “upload excel for multiple stacks”
- Click on “Stack Details” to enter Details manually



- Click on “Upload excel for multiple stacks” where officer needs to upload the data.
- Download the excel sheet provided in .csv format. After downloading insert the Stack Details into downloaded excel sheet (Please note that the format of excel should not be changed as in such case the data will not be uploaded).
- After submitting the stack details download .csv file containing Stack Parameter details. As done for stack details add the stack parameter as per format provided. (please note that the format of excel should not be changed as in such case the data will not be uploaded)

Note: While saving the file it should be saved in .csv format only

The screenshot shows the 'Stack' details entry screen. At the top, there are two radio button options: 'Stack Details' (selected) and 'Upload xlsheet having stack more than one'. Below this, a note says 'Note: Select Stack Details to upload the details manually'. The 'Add Stack Details' section contains fields for 'Stack Name' (1), 'Attached to' (D. G. Set), 'Capacity' (625), 'Units' (KVA), 'Material of Construction' (M. S.), 'Shape' (Round), and 'Fuel Type' (HSD). There are also fields for 'Height' (12.5), 'Units' (m), 'Diameter' (125), 'Units' (125), 'Fuel Quantity' (150), and 'Units' (SELECT UOM). The 'Select Stack Pollutant' section lists several pollutants with checkboxes: Total Particulate Matter (TPM) checked (80 mg/Nm<sup>3</sup>, SO<sub>2</sub> 90 kg/day); NO<sub>x</sub> (Limit, mg/Nm<sup>3</sup>, HCl Limit, Units); Total Organic Compounds (Limit, Units, CO Limit, Units); Total Dioxins (Limit, Units, HF Limit, Units); and Cd+Th (Limit, Units, Hg Limit, Units). A link at the bottom left says '\*Click here to add more parameter [Add More](#)' and a 'SUBMIT' button is at the bottom right.

**Figure 2.5     Stack details to be entered manually**



KYCTracker - Environment

technogreen.co.in/demo/KYC/officer/EListOfProduct.php?ctoe=BO/JD/APC/EIC%20No.%20PN,-950-10/E-CC]&msg=success

Technogreen Environmental Solution

CONTINUE FILLING CONSENT DATA

FINISH

Production Details

Air Environment

Fuel

Stack

Stack Details

Upload xlsheet having stack more than one

Download and Upload .csv file of stack details

1) DOWNLOAD INPUT DATA

2) Choose File | No file chosen UPLOAD

Download and Upload .csv file of stack parameter details

3) DOWNLOAD INPUT DATA

4) Choose File | No file chosen UPLOAD

Ambient

Water Environment

Solid Waste Environment

Activate Windows  
Go to PC settings to activate Windows.

Figure 2.6 Upload xlsheet for stack

## Ambient Details

Click on Ambient details where two options are displayed

- Ambient location Details
- Upload xlsheet having Ambient Location more than one

Click "Ambient Location Details" to enter data manually.

KYCTracker - Environment

technogreen.co.in/demo/KYC/officer/EListOfProduct.php?ctoe=BO/JD/APC/EIC%20No.%20PN,-950-10/E-CC]&msg=success

Technogreen Environmental Solution

Ambient

Ambient Location Details

Upload xlsheet having Ambient Location more than one

Add Ambient Air Monitoring Details

Location Identity: Near Main Gate

Siting Criteria: UP WIND

Ambient Air Pollutant	Limit	Units	Limit	Units	
Sulphur Dioxide (SO <sub>2</sub> )	80	mg/Nm <sup>3</sup>	Particulate Matter PM <sub>10</sub>	70 mg/Nm <sup>3</sup>	
Particulate Matter PM <sub>2.5</sub>	Limit	Units	Ozone (O <sub>3</sub> )	Limit	Units
Lead (Pb)	Limit	Units	Carbon Monoxide (CO)	Limit	Units
Ammonia (NH <sub>3</sub> )	Limit	Units	Arsenic (As)	Limit	Units
Benzene (C <sub>6</sub> H <sub>6</sub> )	Limit	Units	Benzo(a)Pyrene (BaP)	Limit	Units
Nickel (Ni)	Limit	Units			

\*Click here to add more parameter [Add More](#)

SUBMIT

Activate Windows  
Go to PC settings to activate Windows.



**Figure 2.7    Ambient Location Details**

**Figure 2.8    xlsheet for Ambient Details**

While uploading xlsheet for “Ambient Location more than one” select “Upload xlsheet having Ambient locations more than one” and download .csv file for ambient details. As given in excel sheet fill the ambient details, choose file and upload the same.

After submitting the ambient details download the .csv file for “Ambient Parameter Details.” After downloading the file insert the details as per format provided, choose file and upload the same.

**Note: While saving the file it should be saved in .csv format only**

## C      Water Environment

Water Environment consists of “**Water pollutant**” and “**Water Consumption and Waste Wastewater Generation**”.

### I. Water Pollutant



Click on “Water Pollutant” under Water Environment, list of parameter will appear. Select the parameter along with its limit mentioned in consent. For additional parameters click on “Add More” option and fill the details for both Effluent and Sewage Pollutant.

The screenshot shows the 'Water Environment' section of the KYCTracker interface. Under 'Water Pollutant', there are two sections: 'Select Effluent Pollutant' and 'Select Sewage Pollutant'. In the effluent section, 'pH' is selected with a value of 80 and a limit of 56 mg/lit. 'Total Dissolved Solids (TDS)' is also listed with a value of 36 mg/lit. In the sewage section, 'pH' is selected with a value of 61 and a limit of 56 mg/lit. There are 'Add More' links for both sections. A tooltip at the top right says: 'Click water Pollutant, select the water parameter applicable as per consent and submit it's Permissible limit for ETP and STP'.

**Figure 2.9 Water Pollutant Details**

## II. Water Consumption & Wastewater Generation

In industry we require water for various purpose which generally includes Domestic Purpose, Industrial and various other processes. This quantity is specified in Consent. As specified in Consent upload the water consumption for various purposes along with its effluent generation.

The screenshot shows the 'Water Consumption and Wastewater Generation' section. It has a table for water consumption and generation across different purposes:

Purpose	Consumption	Generation	Unit
Domestic Purpose	110	80	CMD
Processing whereby water gets Polluted & Pollutants are Biodegradable	50	95	CMD
Processing whereby Water gets Polluted,Pollutants are not Biodegradable & Toxic	98	76	CMD
Industrial Cooling,spraying in mine pits or boiler feed	157	100	CMD
Others	100	90	CMD
Total	515	441	CMD
Total Domestic	110	80	CMD
Total Effluent	405	361	CMD



**Figure 2.10 Water Consumption and Wastewater Generation**

## D Solid Waste Environment

Solid Waste Environment is sub categorized as:

- Non-Hazardous Waste
- Hazardous Waste
- Biomedical Waste [Applicable only if your Industry Category is Hospital]

### Non-Hazardous Waste

Non-Hazardous Waste is further subcategorized as;

- Non-hazardous waste from process
- Non-Hazardous waste from pollution control facility

Click on “Non-Hazardous waste from Process” and select the Number of Non-Hazardous waste generated in Industry as given in consent. Upload Name, Quantity and unit of measurement of each waste and submit it.

Now, Click on “Non-Hazardous waste from Pollution Control Facility” and then select the Number of Non-Hazardous waste from pollution control facility as given in Consent.

Submit the Name, Quantity of Waste generated and its Unit of measurement.

### Hazardous Waste

Hazardous Waste is further categorized as:

- Hazardous Waste From Process
- Hazardous Waste From Pollution Control Facility

Click on “Hazardous Waste from Process” and select Number of Hazardous Waste generated in Industry and submit the Name of Hazardous waste, Consent Quantity and its unit.

After submitting Hazardous Waste Details click on, “Hazardous Waste from Pollution Control Facility” and select the Number of Hazardous Waste generated from PCF and submit the same along with its Name, Consent Quantity and Unit.



After submitting Hazardous Waste Details officer will be able to View Consent but in case if your Industry falls under Category- Hospitals then after submission of Hazardous Waste Details officer needs to upload “**Biomedical Waste**” details.

### **Biomedical Waste**

“Select the Number of Biomedical Waste you want to add” and upload the Name, Consent Quantity and Unit of Measurement.

### **E      View Consent**

After submitting Consent to Establish, officer can view Consent

- Click on Consent, where two options “Add” and “View” Consent will be displayed
- Click on “View” where again two options “Consent to Establish” and “Consent to Operate” will be displayed
- Select the type of Consent you want to view
- After selecting desired option, another option will be displayed “Select Consent No.” to view desired consent

After selecting Consent No.“Consent Details” page will be displayed. In case if officer wants to make changes on “Consent Details” page click on “EDIT” option and make changes and then click on “MODIFY” Option.

Modify/ delete option is provided to either Modify/ Delete Production, Air Environment, Water Environment and Solid Waste Environment details.

Sometimes due to network issue, time crunch or electricity failure entire data might have not been uploaded. In such case the officer needs to View Consent and add the left over data.

### **2.2    Consent to Operate**

Once officer submits Consent to Establish, Consent to Operate is to be submitted. Officer will be asked ;



- If Industry Has Multiple Consent to Operate, if Yes the officer needs to submit the details of all the Consent to operate sequentially.
- If No, other question as given in **Figure 2.13** will be asked

FILL CONSENT DETAILS

Do You Have Multiple Consent to Operate?

Yes  No

Consent Type  
Consent to Operate

Consent Number (Write consent number as specified in Consent granted from MPCB)  
BO/JD/APC/EIC No. PN-950-10/O-CC

New	Issue Date 07/02/2017	Valid Upto 25/08/2017
Gross CI 500 Crore	Number of Staff 22	Number of Worker 6
Total Plot Area 40000 SQ. M.	Total Built Up Area 25000 SQ. M.	Open Space Available 560 SQ. M.
Total Green Area 5280 SQ. M.	Consent Copy: <input type="button" value="SELECT FILE"/>	

Activate Windows  
Go to PC settings to activate Windows.

CANCEL

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**Figure 2.11 Multiple Consent to Operate**

- Click YES, if you have valid Consent to Establish for Existing Consent to Operate where other question “Do you have Consent to Establish for Expansion” will appear
- If YES, Consent to Establish form will be displayed and if NO Consent to Operate form will be displayed. The officer needs to submit details from MPCB granted consent



Screenshot of the Technogreen Environmental Solution software interface showing the 'Create Consent' form.

The URL in the browser is 192.168.0.105:1234/20162812/KYC/officer/CreateConsent.php?msg=create

The left sidebar shows a navigation menu with the following items:

- Home
- View Company Profile
- Consent
- Daily Input
- View Monitoring Data
- Compliance Forms
- Statistics
- Graphs
- Performance

The main content area is titled "FILL CONSENT DETAILS". It contains the following fields:

- Do You Have Valid Consent to Establish for Existing Consent to Operate? (radio buttons: Yes, No, selected: No)
- Do You Have Valid Consent to Establish for Expansion? (radio buttons: Yes, No, selected: No)
- Note: Please fill the Valid Consent to Operate
- Consent Type: Consent to Operate
- Consent Number (\*Write consent number as specified in Consent granted from MPCB)  
Consent Number: [Text input field]
- Gross CI:  
Gross CI: [Text input field] Issue Date: [Text input field] Valid Upto: [Text input field]
- Total Plot Area: [Text input field] SQ. M. [Text input field] Total Built Up Area: [Text input field] SQ. M. [Text input field] Open Space Available: [Text input field] SQ. M.
- Total Green Area: [Text input field] SQ. M. [Text input field]
- Consent Copy: [Text input field] SELECT FILE
- CANCEL [Button] SUBMIT [Button]

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Figure 2.12 Consent to Operate

### Amalgamation

As shown in Fig. submit the data for Consent to Operate. After filling the Consent to Operate an option “New” and “Amalgamation” will appear.





- While submitting Consent to Operate for first time, select “New” option and proceed with other information. Gross CI, Issue date and validity date should be filled as given in Consent.
- Detail regarding Total plot area, Built up area and open space availability and green area can be obtained from Consent application submitted to MPCB.
- Industries with more than one Consent to Operate, should select YES for Multiple Consents and fill all the data. After Submitting one Consent to Operate and proceeding for other consent the Industry should select “Amalgamation” and fill the other consent details.

**Definition** Amalgamation – Amalgamation is process in which two Consent to Operate for one industry are combined

#### A. PRODUCTION DETAILS:

##### **Product Details:**

After submitting Consent to Operate details, the product details will be displayed Consent to Establish quantity of all the products will be displayed. The officer can modify this quantity while uploading Consent to Operate details:

- If product value (Quantity) increases than Consent to Establish value Warning note will be displayed stating “Filled value is greater than consent value production”. This will be just an intimation note for officer.
- When the values are within limit a note “Accepted” will be displayed in front of each product

Sometimes an Industry can be having two Consent to Operate for one Establish, there are chances that Products will be divided in both consent. In such case Officer should insert zero value in front of products which are not applicable for that particular Consent.

##### **Byproduct Details:**

After submitting product details Byproducts Details will be appeared along with values (Quantity) submitted in Consent to Establish. As said above for Byproduct details,



- If Byproduct value (Quantity) increases than Consent to Establish value Warning note will be displayed stating “Filled value is greater than consent value production”. Due to which data will not be submitted.
- And when the values are within limit a note stating “Accepted” will appear in front of that particular Raw Material

#### **Raw Material Details:**

After submitting Byproduct Details Raw Material Details will be appeared along with values submitted in Consent to Establish. Similarly as stated above;

- If Raw Material value (Quantity) increases than Consent to Establish value Warning note will be displayed stating “Filled value is greater than consent value production”. This will be just an intimation note for user.
- And when the values are within limit a note stating “accepted” will appear in front of that particular Raw Material

#### **B. AIR ENVIRONMENT:**

##### **Fuel Details:**

After submitting Production Details, “Fuel Details” will be displayed. In case if the quantity exceeds a note will displayed **“Cross check the quantity.”**

##### **Stack Details:**

Stacks submitted during Consent to Establish will be displayed. Select and submit the Stacks which are applicable for that particular consent.

##### **Ambient Details:**

In Ambient Details the Ambient location along with pollutant will be displayed. Select the pollutants as per consent and submit.

#### **C. WATER ENVIRONMENT**

Water Environment is further bifurcated as;





- Water Pollutant
- Water Consumption and Waste Water Generation
- Water Inventory

### Water Pollutant

The officer needs to select water pollutant as per his Consent and submit the same.

### Water Consumption and Effluent Generation

Under Water Consumption and Effluent Generation the amount of Water Consumed Effluent Generated in industry will be shown. Select the purpose for which the water is used and submit.

### Water Inventory

Note: The results of water inventory will be used for submitting regular data and Water Budget

After submitting Water Consumption & Effluent Generation, "Water Inventory" page will be displayed.

At first Officer should "**Select Source**" through which the water is taken in Industry for various processes. Water can be taken from;

- MIDC
- Jack well
- Tanker water

Select the water source from above. If industry has more than one source, then after submitting all details as described below, select other source and fill all the details.

After selecting source, few questions will be displayed as:

- A.     **"Do you have water meter for Source Water?"** Select YES if industry has meter or else select NO.
- B.     **"Do you have in house Canteen"**
  - If in house canteen is available, after selecting YES other question "Do you have cooking facility in canteen".



Select YES or NO accordingly

- Select NO if in house canteen

#### C. Do you have Cooking Facility in Canteen?

As per availability, select the options

#### D. Do you have filtration facility

In case the industry is having filters, then officer needs to select the filters from following:

- Softener
- DM
- RO
- UF

Various other question will be asked after selecting filters like

##### **Softener**

Selecting softener, the officer needs to give other details

- “Do you have water meter for Softener”

Select YES or NO, as per the industries scenario

- “Do you want to use default Loss Calculation for Output of Softener filter”.

Default loss means the loss that is likely to take place from that processes. If the officer selects Default loss calculation. The percentage loss considered will be MIDC -10%, Jack well -20%, Tanker water -20%

By selecting NO for default loss calculation other question “Water loss in Percent for Softener filter” will be displayed. Where the officer need to provide percent loss.

- “Select where to use Softener filtered water”.

Select if the softener water is used for Process and cooling.

If softener water is used for process after selecting process two questions will appear as

1. “Do you have water meter for process”. Click YES and NO as per the industries scenario
2. “Water loss in % for process” where Industry has to manually enter the percent of water loss that takes place in process.



3. If Softener water is used for cooling purpose a question "**Do you have water meter reading for Cooling**" will be displayed. Select YES and NO as per the industries scenario

#### **DM**

After selecting **DM** three questions will appear:

- **"Do you have water meter for DM"**

Select YES or NO, as per the industries scenario

- **"Do you want to use default Loss Calculation for Output of DM filter".**

**Default loss** means the loss that is likely to take place from that processes. If the officer select default loss calculation. The percentage loss considered will be MIDC -10%, Jack well -20%, Tanker water -20%

By selecting NO for default loss calculation other question "Water loss in Percent for DM filter" will be displayed. Where the officer need to provide percent loss.

- **"Select where to use DM filtered water".** Select Process/drinking or both in case applicable:

If DM water is used for process after selecting process two questions will appear as

1. **"Do you have water meter for process"**. Click YES if you have water meter reading or else click NO.
  2. **"Water loss in % for process"** where Industry has to manually enter the percent of water loss that takes place in process.
  3. If DM water is used for drinking purpose a question "**Do you have water meter reading for Drinking**" will be displayed. As per the industries scenario select accordingly
- After selecting **RO**, further three questions will be displayed as

#### **RO**

- **"Do you have water meter for RO"**

Select YES or NO, as per the industries scenario

- **"Do you want to use default Loss Calculation for Output of RO filter".**



**Default loss** means the loss that is likely to take place from that processes. If the officer select default loss calculation. The percentage loss considered will be MIDC -10%, Jack well -20%, Tanker water -20%

By selecting NO for default loss calculation other question "Water loss in Percent for RO filter" will be displayed. Where the officer need to provide percent loss.

- **"Select where to use RO filtered water"**. Select Process/drinking or both in case applicable:

If RO water is used for process after selecting process two questions will appear as

1. **"Do you have water meter for process"**. Click YES if you have water meter reading or else click NO.
  2. **"Water loss in % for process"** where Industry has to manually enter the percent of water loss that takes place in process.
  3. If RO water is used for drinking purpose a question **"Do you have water meter reading for Drinking"** will be displayed. As per the industries scenario select accordingly
- After selecting UF, further three questions will be displayed as

#### **UF**

- **"Do you have water meter for UF"**

Select YES or NO, as per the industries scenario

- **"Do you want to use default Loss Calculation for Output of UF filter"**.

**Default loss** means the loss that is likely to take place from that processes. If the officer select default loss calculation. The percentage loss considered will be MIDC -10%, Jack well -20%, Tanker water -20%

By selecting NO for default loss calculation other question "Water loss in Percent for UF filter" will be displayed. Where the officer need to provide percent loss.

- **"Select where to use UF filtered water"**. Select Process/drinking or both in case applicable:

If UF water is used for process after selecting process two questions will appear as

1. **"Do you have water meter for process"**. Click YES if you have water meter reading or else click NO.



2. "**Water loss in % for process**" where Industry has to manually enter the percent of water loss that takes place in process.
3. If UF water is used for drinking purpose a question "**Do you have water meter reading for Drinking**" will be displayed. As per the industries scenario select accordingly

E. After selecting the filters, "**Select where to use source water**" from:

- Domestic
- Industrial Process
- Laundry
- Fire Hydrant

Select the source water category. After selecting category few questions will be displayed on screen as:

**"Do you have meter reading for Domestic".** If you have meter click on YES or else click NO

1. Selecting Industrial Process four subcategories will be displayed as:

- Process
- Cooling
- Boiler
- Equipment washing

As per the use of water for various purposes in industry select the process.

If the water is used for process select process. Two questions will be displayed as:

- "Do you have Water meter for process." Select options accordingly (Yes/No)
- Water loss in percent for process where the officer needs to enter percent water loss manually

After selecting **Cooling**, Two questions will be displayed as:

- Do you have Water meter for Cooling. Select the option as per the industries scenario( Yes/No)



Click **Boiler**, if industrial water is used for this purpose Further a question will be displayed as:

- “Do you have Water meter for Boiler” will appear. Select Yes or No accordingly

Selecting **Equipment Washing** where industrial water is used. Two more questions will be displayed as:

- Do you have Water meter for Equipment Washing. If the industry is having water meter select Yes or else select No.

After selecting **Laundry** following questions will appear:

- “Do you have Water meter for laundry” if the industry is having meter select YES or else select NO. Selecting No will redirect the officer to other question “Water Loss in Percent for Laundry
- In this case the officer needs to upload percent loss manually

After Selecting **Fire Hydrant** following questions will appear:

“Do you have Water meter for Fire Hydrant”. Select Yes or NO depending upon the industries status

F. Further question that appear is **“Do you have waste water treatment plant”**

Click YES if the industry is having plant or else click NO

- If you select NO , then click on submit and proceed with Solid waste Environment detail

Selecting YES will ask the officer to select weather the industry has

- ETP
- STP

If industry is having, ETP as well as STP both the options should be selected. The officer should select where the treated waste water should be disposed or used.

Select the place where the treated wastewater will be disposed or used. For E.g treated wastewater can be used for Gardening, car washing or in various processes etc. Accordingly select source of disposal for ETP as well as STP.



#### D. Solid Waste Environment

Solid waste environment is further bifurcated as:

- Hazardous waste
- Non-Hazardous waste

Click “**Non-Hazardous waste from processes**” under Hazardous waste where the data submitted at time of Consent to Establish will be displayed. Submit the data. The officer can even change the quantity of waste as per consent. If value exceeds Consent value warning message will be displayed on screen.

After submitting “Non-Hazardous waste from processes” click “**Non-Hazardous waste from pollution control facility**”, where data submitted at time of Consent to Establish will be displayed. The officer can change the quantity if required (As per consent)or else submit the data. If value exceeds Consent value warning message will be displayed on screen. After submitting the data click on Hazardous waste.

**Hazardous waste** is further categorized as

- Hazardous waste from Process
- Hazardous waste from Pollution Control Facility

Click on “Hazardous Waste from Process” under Hazardous Waste where data filled at the time of Consent to Establish will be already displayed. The quantity of Hazardous waste can even be changed. If the value exceeds the Consent Quantity warning message will be displayed stating “Actual value is greater than Consent Value”.

After submitting “Hazardous Waste from Process” click on “Hazardous Waste from Pollution Control Facility” where data already submitted at the time of filling Consent to Establish will be displayed. Submit the quantity, or else the officer can even change the quantity of any Hazardous Waste before submitting. If the Quantity exceeds the Consent Quantity then a warning message will be displayed stating “Actual Quantity exceeds the Consent Value”.

#### E. View Consent

After submitting Consent to Establish and Operate, Officer can view both the consent



- Selecting consent will display two option, Add and View consent
- Click on “View” where again two options “Consent to Establish” and “Consent to Operate” will be displayed
- Select the type of Consent officer wants to view
- After selecting Consent, other question “Select Consent No.” will be displayed where officer needs to select Consent No. to view that particular consent

After selecting Consent No.“Consent Details” page will be displayed. Changes can be done by selecting “Edit” option available on “Consent Details” page and then click on “Modify”.

Further while viewing Production, Air Environment, Water Environment and Solid Waste Environment details, changes can be done by selecting Modify/Delete option wherever required.

Sometimes due to any problem like network issue or time crunch the account may be logged out or due to electricity failure the entire consent could not be complete.

In such time, as described earlier officer needs to select the particular consent for making changes. Click on ADD option provided and submit data.

Once the officer has submitted Consent to Establish and Consent to Operate Details, the officer can view filled Consent by selecting View Consent under Consent

BO/JD/APC/EIC NO. PN-950-10/E-CC

Consent No.:	BO/JD/APC/EIC No. PN-950-10/E-CC	Consent Type:	Consent to Establish		
Issue Date:	2011-10-02	Valid Date:	2018-01-04		
Gross Capital Investment:	500 Crore	Staff:	20	Worker:	5
Total Plot Area:	40000	Total Build Area:	25000	Total Green Area:	5200



**Figure 2.13 View Consent**

Name	Quantity	Units	Modify / Delete
Chassis	250000	Nos/Year	Modify Delete
Silencer	200000	Nos/Year	Modify Delete
Brake Assembly	50000	Kg/Year	Modify Delete
Air Cooler	1000000	Nos/Year	Modify Delete
Fuel Tank	50000	Nos/Year	Modify Delete

**Figure 2.14 Add Product through View Consent**

Name	Quantity	Units
Chassis	250000	Nos/Year



**Figure 2.15 Modify Data through view Consent**

Stack Name	Attached to	Capacity	Units
1	D. G. Set	625	KVA

Material of Construction	Shape	Fuel Type
M. S.	Round	HSD

Height	Units	Diameter	Units	Fuel Quantity	Units
12.5	m	125	mm	150	Ltr/hr

Stack Pollutants		Limit	Units	Delete
SPM		80	mg/Nm3	Delete

Stack Pollutants	Modify / Delete
SPM	Modify Delete
Paint Booth	Modify Delete
Boiler	Modify Delete

**Figure 2.16 Modify Stack data through View Consent**

#	Pollutant name	Limit	Unit	Modify/Delete
1	pH	5.5-9.0		Modify Delete
2	Total Suspended Solids	250	mg/lit	Modify Delete
3	Total Dissolved Solids	210	mg/lit	Modify Delete
4	Biological Oxygen Demand (BOD)	100	mg/lit	Modify Delete

#	Pollutant name	Limit	Unit	Modify/Delete
1	pH	6.5-9.0		Modify Delete
2	SS	250	mg/lit	Modify Delete
3	Biological Oxygen Demand (BOD)	250	mg/lit	Modify Delete

**Figure 2.17 Add Effluent through View Consent**



Figure 2.18 Modify Data



**Figure 2.19 Warning for Daily Data**

### **2.3 Daily Input**

As the name indicates, in Daily input data Environmental Officer should upload Daily Production of Product, Byproduct, Raw Material Details, Fuel Consumption, Water Details and Solid Waste (Non-Hazardous Waste and Hazardous Waste from Process/Pollution Control Facility). This data should be filled daily. In case if officer forgets to fill data then it will affect its Quality performance. To make task easy, application will be provided to industry during subscription

After subscription, the officer needs to upload all the data from issue date of consent. For this a file in .csv format is provided. The officer needs to enter all the data at one time and submit it

Kindly note that this option (Uploading file) is only available for 1 time where Officer has to upload daily data from the date you have secured consent till date, after that the daily data should be filled time to time.

After submitting the Consent to Establish and Consent to Operate, click on “Daily Data” provided exactly below the Consent.

Click on “Add”. In Daily Input Data calculation is provided comparing the Consent value in such a way that approximate Daily Consumption will be displayed in front of each product where Product name, its Quantity along with Unit of Measurement will be displayed. Cross check if Industry’s production is less or more than the value displayed on screen. In case if value varies make changes accordingly and submit the details. In case if Production exceeds a warning will be displayed that, “If Production rate will be same throughout the month/year”. This will be just an intimation mail



Similarly as done above for Product Officer has to submit the data for Byproduct Details, Raw Material, Fuel Detail, Water Consumption and Solid Waste Environment Details - Non-Hazardous Waste (Non-Hazardous waste from process, non-Hazardous waste from pollution control facility,

Hazardous Waste (Hazardous waste from Process, Hazardous waste from pollution control facility.

The Daily Input data can be filled through cell phone which will be given to the user at the time of KYC registration

Note: Please take care that while submitting value the Officer should provide exact Number as it is linked to various other calculations.

View:

After submitting the daily input data it can be viewed by clicking, "View" option under "Daily Input".

Sometimes due to technical error, network issue or time crunch if the Environmental Officer could not have submitted the entire data, remaining data can be submitted by clicking "View" option under "Daily Input". For carrying out changes "Modify" option is provided in front of each product.



KYCTracker - Environment X

technogreen.co.in/demo/KYC/officer/Regular\_daily\_data.php

Technogreen Environmental Solution

SANIKA

Home

View Company Profile

Consent

Daily Input

Add

View Modified Data

View Monitoring Data

Compliance Forms

Statistics

Graphs

Performance

DAILY INPUT

Date : 2017-03-18

Insert daily generation (Product, Byproduct, Raw Material, Fuel, Water Entry and Solid Waste)

Production

Product Details

Name	Quantity	Units
Chassis	Data Filled	Nos/Day
Silencer	Data Filled	Nos/Day
Brake Assembly	Data Filled	Kg/Day
Air Cooler	Data Filled	Nos/Day
Fuel Tank	Data Filled	Nos/Day

CANCEL SUBMIT

Byproduct Details

Raw Material Details

Fuel

Water

Solid Waste

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Figure 2.20 Daily Data

KYCTracker - Environment X

technogreen.co.in/demo/KYC/officer/ViewRegularData.php

Technogreen Environmental Solution

SANIKA

Home

View Company Profile

Consent

Daily Input

View Monitoring Data

Compliance Forms

Statistics

Graphs

Performance

DAILY INPUT

Date : 18-03-2017

2016

2017

Production

Product Details

ID	PRODUCT NAME	QUANTITY	DATE	BY	MODIFY
1831	Chassis	6848 Nos/Day	2017-01-01	Sanika	
1832	Silencer	544 Nos/Day	2017-01-01	Sanika	
1833	Brake Assembly	133 Kg/Day	2017-01-01	Sanika	
1834	Air Cooler	2738 Nos/Day	2017-01-01	Sanika	
1835	Fuel Tank	140 Nos/Day	2017-01-01	Sanika	
1836	Chassis	6846 Nos/Day	2017-01-02	Sanika	
1837	Silencer	543 Nos/Day	2017-01-02	Sanika	
1838	Brake Assembly	139 Kg/Day	2017-01-02	Sanika	
1839	Air Cooler	2741 Nos/Day	2017-01-02	Sanika	
1840	Fuel Tank	136 Nos/Day	2017-01-02	Sanika	

EXPORT TO EXCEL

Search 10

... < 1 2 3 4 5 > ...

Showing 1 to 10 of 600 entries

Bypoduct Details

Activate Windows  
Go to PC settings to activate Windows.



**Figure 2.21 View Daily Data**

The screenshot shows a web-based application interface titled "Technogreen Environmental Solution". On the left, there is a sidebar menu with options like "View Company Profile", "Consent", "Daily Input", "View Monitoring Data", "Compliance Forms", "Statistics", "Graphs", and "Performance". The main content area is titled "Modified Data" and displays a table with the following data:

ID	NAME	OLD QUANTITY	NEW QUANTITY	MODIFIED ON DATE	MODIFIED OF DATE	BY	REASON
1	Silencer	67 Nos/Day	544 Nos/Day	2016-12-22	2016-12-01	Sanika	Internet Problem
2	Silencer	67 Nos/Day	544 Nos/Day	2016-12-22	2016-12-01	Sanika	Internet Problem
3	Silencer	67 Nos/Day	544 Nos/Day	2016-12-22	2016-12-01	Sanika	Internet Problem
4	Silencer	67 Nos/Day	544 Nos/Day	2016-12-22	2016-12-01	Sanika	Internet Problem
5	Silencer	67 Nos/Day	544 Nos/Day	2016-12-22	2016-12-01	Sanika	NA
6	Silencer	67 Nos/Day	544 Nos/Day	2016-12-22	2016-12-01	Sanika	NA
7	Silencer	67 Nos/Day	544 Nos/Day	2016-12-22	2016-12-01	Sanika	Internet Problem
8	Silencer	67 Nos/Day	544 Nos/Day	2016-12-22	2016-12-01	Sanika	Internet Problem
9	Silencer	67 Nos/Day	544 Nos/Day	2016-12-22	2016-12-01	Sanika	Internet Problem
10	Silencer	67 Nos/Day	544 Nos/Day	2016-12-22	2016-12-01	Sanika	Internet Problem

At the bottom of the table, it says "Showing 1 to 10 of 26 entries".

**Figure 2.21 View Modified Data**

## 2.4 View Monitoring Data

Monitoring Data will be filled by “Third Party User”. Environmental Officer and Management will be able to view monitoring data.

Click on “View Monitoring Data” in Menu option and “Select Year” and “Select Month” whose data is to be viewed. Once the Year and Month is submitted the monitoring details submitted by third party will be viewed. The Monitoring Reports can also be printed.



KYCTracker - Member section

technogreen.co.in/demo/KYC/officer/ViewMonitoringReports.php

Technogreen Environmental Solution

No Photo

ADMIN@MPCB

Home

- View Company Profile
- Consent
- Daily Input
- View Monitoring Data
- Compliance Forms
- Statistics
- Graphs
- Performance

Monitoring Data

Date : 21-03-2017

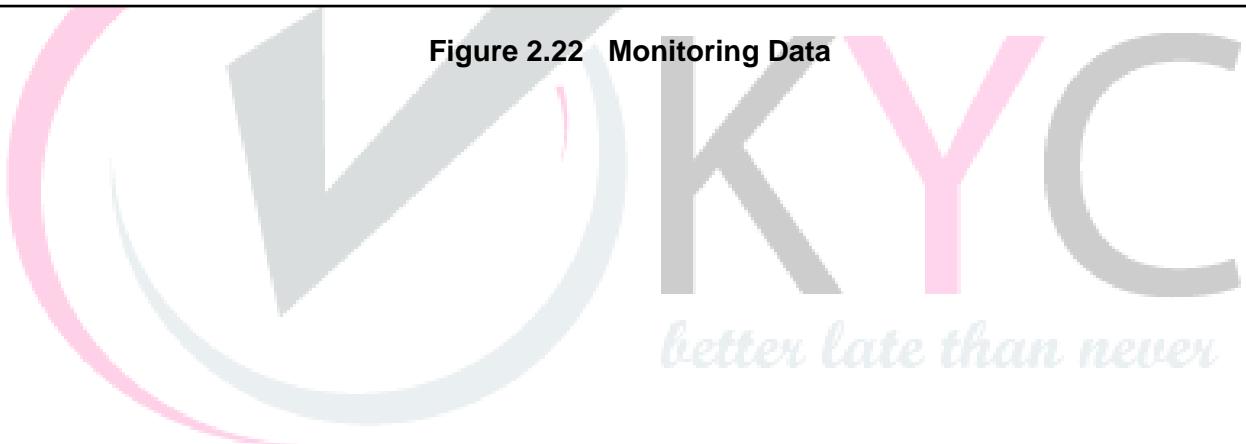
2015

2016

2017

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Figure 2.22 Monitoring Data





The screenshot shows a web-based application titled "Technogreen Environmental Solution". The left sidebar includes a user profile picture, a dropdown menu for "ADMIN/MPCB", and a navigation menu with items like "Home", "View Company Profile", "Consent", "Daily Input", "View Monitoring Data", "Compliance Forms", "Statistics", "Graphs", and "Performance". The main content area is titled "Monitoring Data" and displays monitoring reports for the year 2016. It shows sections for "Stack", "Ambient", and "Water Pollutant". Under "Water Pollutant", there is a sub-section for "Effluent Pollutant" specifically for "Effluent Waste-water data of month November". A table provides the following data:

POLLUTANTS	INLET CONC.	OUTLET CONC.	UNITS
pH	12	8	mg/lit
Total Suspended Solids	NA	NA	mg/lit
Total Dissolved Solids	NA	NA	mg/lit
Biological Oxygen Demand (BOD)	NA	NA	mg/lit

The date displayed is "Date : 21-03-2017".

Figure 2.23 Monitoring Report



## 2.5 Compliance Form

Compliance form is subcategorized as:

- a. ESR Form
- b. Water Cess From
- c. Hazardous waste return
- d. Hazardous Waste Manifest

ESR, water cess, Hazardous waste return will be the outcome of Daily input





### 2.5.1 ESR (Environmental Statement Report) Form:

Environmental Statement Report should be submitted by every company on or before 30<sup>th</sup> June of every year.

ESR is the outcome of data submitted by Officer. If the data entered in ESR is correct it can be copy pasted while submitting ESR to MPCB. ESR will be viewed in following format:

- Product, By-Product, Water Consumption, Fuel Quantity will be displayed accordingly
- Comparison of Consent quantity with Actual quantity.
- Product wise water consumption and Raw material consumption is compared with previous financial year and current financial year.
- Hazardous waste and Solid waste details are compared with previous and current financial year.
- Pollution Details of Water (Effluent/Sewage), Air(Stack) will be displayed along with its Quantity, Concentration, % variation, standard and reason
- If any Additional measures /investment proposed will be also displayed.

In ESR Pop up will be displayed, where the officer needs to submit

- Quantity recycled or Re-utilized within the unit (Solid waste)
- Hazardous Waste and solid waste
- Impact of pollution control measures taken on conservation of natural resources and consequently on the cost of production
- Investment made during the period of Environmental Statement
- Investment proposed for next year

The Officer cannot make changes in other details of report.

The ESR can be only correct if the Officer has uploaded correct Daily Data or Consent Data. As described above in ESR Consent Quantity is compared with Actual quantity for checking the Non-Compliance. The values in ESR cannot be changed.



If you have single product then pollution per unit production will be automatically calculated, but if you have multiple products and you do not put info for individual products then that particular section should be entered manually.

Select the year whose ESR is to be viewed

The screenshot shows a web application interface for KYCTracker. On the left, there's a sidebar with a user profile picture of a woman named SANJANA and a navigation menu. The main area has a dark header with the Technogreen Environmental Solution logo. A central modal window titled "SELECT YEAR FOR ENVIRONMENTAL STATEMENT REPORT" is open. It contains a search bar labeled "SELECT YEAR" and a dropdown menu labeled "Select Year" with options like "April 2011 - March 2012" through "April 2016 - March 2017". To the right of the modal, there's a "GET STATEMENT" button. Two blue arrows point from the text labels below to these elements: one arrow points to the "SELECT YEAR" input field with the label "1) Select the year to view ESR Form.", and another arrow points to the "GET STATEMENT" button with the label "2) Click here to get ESR.". In the bottom right corner of the modal, there's a "Signature:" section with company details: Name: Technogreen Environmental Solution, Address: Wakadewadi, Tal: Pune, Dist: Pune.

Figure 2.24 Select Year for ESR



KYCTracker - Environment X

technogreen.co.in/demo/KYC/officer/ESR\_Form.php?msg=2016-2017

Technogreen Environmental Solution

SANIKA

Home

View Company Profile

Consent

Daily Input

View Monitoring Data

Compliance Forms

Statistics

Graphs

Performance

FORM V Environmental Audit Report for the financial Year ending the 31st March 2017

Company Information:

Company Name	Technogreen Environmental Solution	
Address	Plot No. 202, Hem Opal, Wakadewadi, Taluka - Pune, Dist. - Pune	
Plot no	Taluka	Village
202, Hem Opal	Pune	N.A.
Capital Investment (in lakhs)	Scale	City
250 crore	MSI	Pune
Pincode	Person Name	Designation
471125	Ajay Ojha	Technical Partner
Telephone	Fax Number	Email
9833833912	0223456789	technogreen.solutions@gmail.com
Region	Industry Category	Industry Type
Pune II	GREEN	
Last Environmental statement submitted online	Consent Number	Consent Issue Date
Yes	BO/JD/[APC/EIC No. PN-950-10-O-CC]	2011-10-02
Consent Valid Upto		
2018-01-02		

Print ESR. Save & Print

Select Year

Save

Activate Windows  
Go to PC settings to activate Windows.

technogreen.co.in/demo/KYC/officer/ESR\_Form.php?msg=2016-2017#

Figure 2.25 ESR Form

### As given in Figure 2.25,

Once the ESR form is displayed, As shown in Figure three options are provided.

The officer has to add details as described above and save the changes done

In case if the officer wants to print the same form, click on “Save and Print”.

Through select year the officer needs to select year whose data is to be viewed.



## 2.5.2 Water Cess Form

Click on "Water Cess Form" in "Compliance Form".

To view the water cess details, Environmental Officer should select "Select Year" and "Select Month".

Based on Daily input data the water cess values will be calculated which the officer will view in water cess.

In case if the meter was shut down/not working due to some problem then the water data should be entered manually under "If meter was out of Order, monthly average consumption of previous months".

The water cess can be printed through "Print" option. The print out can be directly obtained and submitted to MPCB.

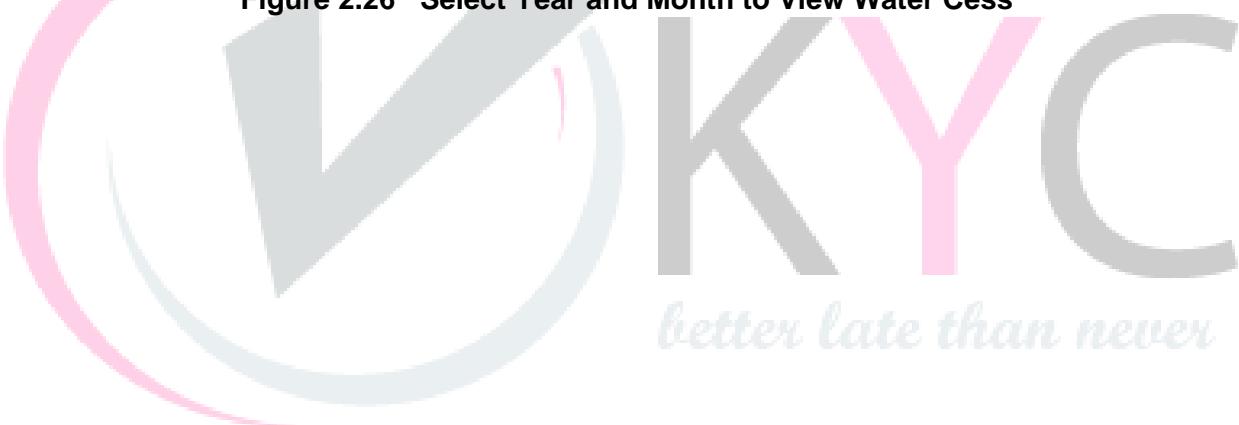
The charges applied for various sources of water are as:

- Industrial cooling, spraying in mine pits spraying in mine pits or boiler feeds : 10 paise / KL
- Domestic purpose: 3 paise / KL
- Processing whereby water gets polluted and the pollutants are easily bio-degradable : 20 paise / KL
- Processing whereby water gets polluted and the pollutants are not easily bio-degradable and are toxic : 30 paise / KL

If the officer forgets to fill water data for suppose 7 days and submits the data on 8<sup>th</sup> day then the back calculation will be done.



Figure 2.26 Select Year and Month to View Water Cess





KYCTracker - Environment

technogreen.co.in/demo/KYC/officer/WaterCessForm.php

Technogreen Environmental Solution

SANIKA

Home

- View Company Profile
- Consent
- Daily Input
- View Monitoring Data
- Compliance Forms
- Statistics
- Graphs
- Performance

Returns regarding the Water Consumption

Date : 20-03-2017

2016

2017

January

Form - 1 (See Rule 4)Return Regarding Water consumed for the period of January 2017

Name and address of the consumer.	Purpose of which water consumed.	Supply Source from	Reading at the beginning of the first day of the calendar month under report.	Reading at the end of the last day of calendar month under report	Quantity of water consumed in Kiloliters Estimated	If the meter was out of Order, monthly avg. consumption of previous months. (m <sup>3</sup> )	Quantity of water qualifying for rebate according to the assessee	Remarks
1	2	3	4	5	6	7	8	9
Technogreen Environmental Solution, Wakadewadi, Tal. Pune, Pune.	<ul style="list-style-type: none"> <li>Industrial cooling spraying in mine pits or boiler feed</li> </ul>	MIDC Water	542	548	6			
	<ul style="list-style-type: none"> <li>Domestic purpose</li> </ul>	MIDC Water	0	4	4			
	<ul style="list-style-type: none"> <li>Processing whereby water gets polluted and the pollutants are easily biodegradable.</li> </ul>	MIDC Water	0	3	3			
	<ul style="list-style-type: none"> <li>Processing whereby water gets polluted and the pollutants are not easily biodegradable and are toxic.</li> </ul>	MIDC Water	0	0	0			
<small>* For claiming rebate under col. 8 the assessee shall indicate in this column the analytical and other reports annexed to this return in support of this claim.  # For water meter on Canal: New Meter installed 1 unit = 1 KL  \$ For water meter on River: New meter installed 1 unit = 1 KL  For Water meter on Cantonment: 1 unit = 1 KL  @ Water intake from bore wells (max.):</small>								
January 2017								
<small>Name: Technogreen Environmental Solution, Address: Wakadewadi, Tal: Pune Dist: Pune</small>								
<small>Signature:</small>								

Figure 2.27 Water Cess



KYCTracker - Environment

technogreen.co.in/demo/KYC/officer/WaterCessForm.php

Technogreen Environmental Solution

SANIKA

Home

View Company Profile

Consent

Daily Input

View Monitoring Data

Compliance Forms

Statistics

Graphs

Performance

ANNEXURE TO FORM 1

Report of Analysis of treated effluent showing performance of the treatment plant for the period of January 2017

Sample collected on: 2017-01-02		Maximum permissible limits or ranges allowed as per consent condition.		Sample tested on: 2017-01-03		Date on which	
Sr. No	Polluting parameters as mentioned in the conditions in consent under Section 25/26 of the Water Act 1974.			Concentration of range of parameters as per report.		Breakdown or failure of plant occurred.	Under performance was noticed.
1	2	3	4	5	6		
1	pH	6.5-9.0		6			
2	SS	NA	NA	NA			
3	Biological Oxygen Demand (BOD)	250	mg/lit	20	mg/lit		

End: Original Analysis report of Laboratory

January 2017

Signature:

Name: Technogreen Environmental Solution,  
Address: Wakadewadi,  
Tal: Pune  
Dist: Pune

February

March

April

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Figure 2.28 Annexure for Water Cess



### 2.5.3 Water Budget

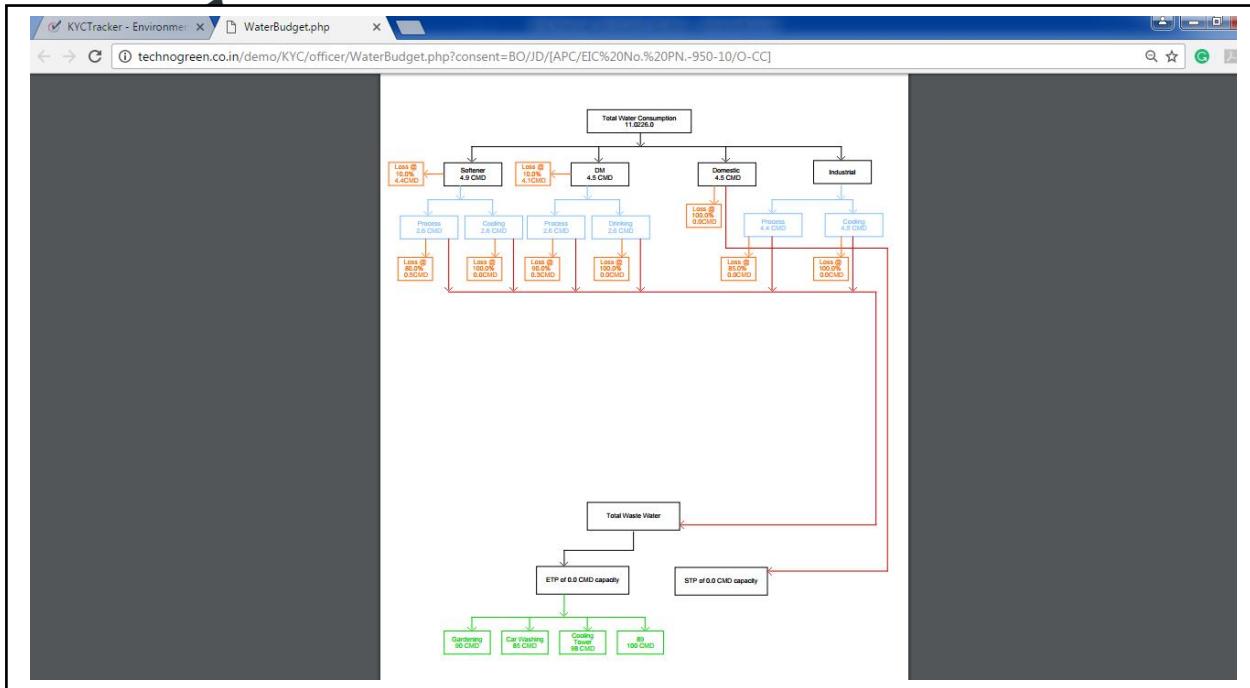
Every industry has certain amount of water requirement , granted from concerned authority. The total water requirement is bifurcated further into various streams like water used for processes, cooling, etc. The amount of water is divided in all these streams as per requirement. This is represented in Water Budget.

Click on Water Budget under Compliance Forms and select the consent number. Consent number selection is provided so that, if any industry is having more than one consent, water budget of that particular consent can be viewed.

Water budget will be the outcome of the water inventory data. The water budget can be printed and downloaded

ID	NAME	OLD QUANTITY	NEW QUANTITY	MODIFIED ON DATE	MODIFIED OF DATE	BY	REASON
1	Silencer	67 Nos/Dey	544 Nos/Dey	2016-12-22	2016-12-01	Sanika	Internet Problem
2	Silencer	67 Nos/Dey	544 Nos/Dey	2016-12-22	2016-12-01	Sanika	Internet Problem
3	Silencer	67 Nos/Dey	544 Nos/Dey	2016-12-22	2016-12-01	Sanika	Internet Problem
4	Silencer	67 Nos/Dey	544 Nos/Dey	2016-12-22	2016-12-01	Sanika	Internet Problem
5	Silencer	67 Nos/Dey	544 Nos/Dey	2016-12-22	2016-12-01	Sanika	NA
6	Silencer	67 Nos/Dey	544 Nos/Dey	2016-12-22	2016-12-01	Sanika	NA
7	Silencer	67 Nos/Dey	544 Nos/Dey	2016-12-22	2016-12-01	Sanika	Internet Problem
8	Silencer	67 Nos/Dey	544 Nos/Dey	2016-12-22	2016-12-01	Sanika	Internet Problem
9	Silencer	67 Nos/Dey	544 Nos/Dey	2016-12-22	2016-12-01	Sanika	Internet Problem
10	Silencer	67 Nos/Dey	544 Nos/Dey	2016-12-22	2016-12-01	Sanika	Internet Problem

Figure 2.29 Select Consent to Operate



**Figure 2.30 Water Budget**





## 2.5.4 Hazardous Waste Manifest

### Form 13

Selecting Hazardous Waste Manifest will display two option :

- Add
- View

Click on “Add” option and upload the Hazardous Waste Details.

Hazardous waste Manifest is a transporting document prepared and signed by the sender for safe transport of Hazardous Waste.

While submitting the Manifest Environmental Officer requires following details for submitting the form:

- Occupier's Information
- Transporter's Information
- Waste description along with Total quantity of Waste
- Consistency (whether it is Solid, Semi-Solid, Slurry etc)
- Transport Description of Waste
- Special Handling Information and Additional Information if any.

If the waste is disposed from container, click on “Add Container”

While filling the data Officer can refer Manifest submitted by Industry and submit the same details for each month as given in form. The manifest should be filled once in month.

Clicking View Data, the submitted details can be viewed. The submitted data can be even deleted or modified through “View” data .



KYCTracker - Environment

Technogreen Environmental Solution

SANIKA

Home

View Company Profile

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Daily Input

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Compliance Forms

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Performance

HAZARDOUS WASTE MANIFEST

Occupier's information

Mahindra Gear PVT LTD Plot No.C 23/2,Phase 2, Chakan MIDC,Dist:Pune  
ROP/E25/CC/UB/PUNE/70/11 170 245

Transporter's information

Maharashtra Enviro Power LTD Plot No 56,MIDC,Ranjangaon,Pune  
Type of Vehicle  Truck  Tanker  Special Vehicle  
185 623 MH12 GT 2430 Maharashtra Enviro Power LTD  
Plot No 56,MIDC,Ranjangaon,Pune BO/Ro/HQ/HWMD/EIC No.PN-22957-14/CR/CC-6709 9856987589

Waste Description

1.33 Used Oil/Spent Oil  
 35.3 Chemical sludge from WW treatment plant  
 Discarded Barrel

Consistency

Solid  Semi-Solid  Sludge  Oily  Tarry  Slurry

Transport Description of Waste

Tanker

Containers : Click here to Add Containers

Number	Type
NA	NA

650 KG 650 KG 5.2

Special Handling Instructions and Additional Information NA

CANCEL SUBMIT

FORM-13  
(See Rule 21(1))

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Figure 2.31 Hazardous Waste Manifest



## 2.5.4 Hazardous Waste Return

### Form 4 [Form for filling Annual Returns by the Occupier or Operator of Facility]

Hazardous Waste Manifest as described above should be submitted by the officer every time he disposes of Hazardous Waste, which will directly display Hazardous Waste Return at the end of year.

You can even print the Hazardous Waste Return form through "Print" option as provided. Time to time submission of Hazardous Waste Manifest by the officer will generate correct "Hazardous Waste Return" form which he can print and can directly submit these details at the time final submission of Hazardous Waste Return for MPCB.

Hazardous Waste Return should be filled before 5<sup>th</sup> September of every year.

The details required to be filled at the time of submission of Hazardous Waste Return are as:

- Name of authorized person
- Description of hazardous waste – weather it is solid, liquid or semi solid
- Description of storage – Is it stored in Container, gunny bags
- Description of treatment – Weather any treatment is applied to the waste stored
- Details of transportation- Any kind of special vehicle, truck is used for transportation of HW
- Details of Hazardous waste disposal can be seen on the page

"Hazardous Waste Return" form can be only viewed by the Environmental Officer or by Management.



KYCTracker - Environment X

technogreen.co.in/demo/KYC/officer/HWManifestForm.php

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SANJAYA

Occupant  
Machine  
ROPE  
Transport  
Measures  
Type of Waste  
185 623  
Plot No 56,MIDC,Ranjangaon,Pune  
Waste Description  
 1.33 Used Oil/Spent Oil  
 35.3 Chemical sludge from WW treatment plant  
 Discarded Barrel  
Consistency  
 Solid ✓ Semi-Solid  
 Sludge ✓ Oily  
 Tarry  
 Slurry

SELECT YEAR FOR HAZARDOUS RETURN

GET STATEMENT

Plot No C 23/2,Phase 2, Chakan MIDC,Dist-pune  
170 245  
Plot No 56,MIDC,Ranjangaon,Pune  
MH12 OT 2430  
B0/RO(HQ)/HWMD/EIC No PN-22957-14/CR/CC-6709  
Maharashtra Enviro Power LTD  
9568799548  
9575848659  
9856987599

FORM-13  
(See Rule 21(1))

Figure 2.32 Select Year for Hazardous Return

KYCTracker - Environment X

technogreen.co.in/demo/KYC/officer/Hazardous\_return.php?msg=2015-2016

Technogreen Environmental Solution

SANJAYA

FORM 4 (See rules 8(2) and 22(2))

FORM FOR FILING ANNUAL RETURN BY THE OCCUPANT OR OPERATOR OF FACILITY  
(To be submitted by the occupant or operator of facility to the concerned Regional Pollution Control Committee by 30th June of every year for the preceding period April to March)

1 Name and Address of generator / Operator of Facility	Technogreen Environmental Solution 202, Hemalaya, Walkeshwar, Pune, N.A. Pune-411026, India		
2 Name of the authorized person and full address with telephone and fax number	Name: Ajay Dha Designation: Technical Partner Mobile: 9888888888 Tele: 9888888888 Fax: 9222667799		
3 Description of Hazardous Wastes	Physical form with description		
	Solid		Chemical form
	Oily		
4 Quantity of hazardous waste(s) (MT)	Type of Hazardous waste	Quantity (in Tonnes / Kt)	
	1.33 Used Oil/Spent Oil	1200.00	
	35.3 Chemical sludge from WW treatment plant	370.00	
	Discarded Barrel	300.00	
5 Description of Storage	N/A		
6 Description of Treatment	N/A as disposed of to CHINTAP		
7 Details of Transportation	Name & Address of Consignee	Mode of Packaging	Mode of Transportation
	Kiran Transports, Shrivardhan, Pune, 411077	N/A	Truck
	****Ahmednagar Enviro Power LTD, ****Plot No 56,MIDC,Ranjangaon,Pune, 411026	N/A	Trailer
	****Ahmednagar Enviro Power LTD, ****Plot No 56,MIDC,Ranjangaon,Pune, 411026	N/A	Trailer
8 Details of hazardous waste disposal	Name & Address of Consignee	Mode of Packaging	Date of Transportation
	Kiran Transports, Shrivardhan, Pune, 411077	N/A	2015/12/29
	****Ahmednagar Enviro Power LTD, ****Plot No 56,MIDC,Ranjangaon,Pune, 411026	N/A	2015/12/23
	****Ahmednagar Enviro Power LTD, ****Plot No 56,MIDC,Ranjangaon,Pune, 411026	N/A	2015/12/23
9 Quantity of useful material sent back to manufacturer or other	Name & type of material sent back to	Quantity (in Tonnes / Kt)	
	Manufacturers	N/A	
	Others	N/A	

Figure 2.33 Hazardous Return Form



## 2.6 Statistics

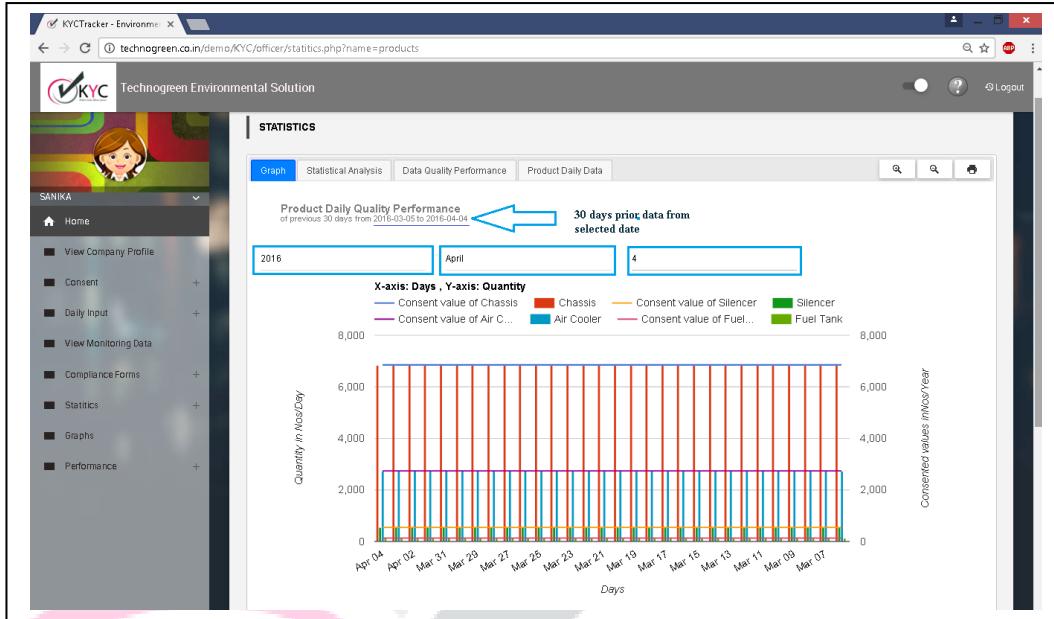
- Statistics is graphical representation of following:
- Products
- By products
- Raw Materials
- Fuel
- Hazardous waste from process
- Hazardous waste from PCF
- Non- Hazardous waste from process
- Non- Hazardous waste from PCF
- Water consumption
- Waste Water generation
- Biomedical Waste (Applicable only for Hospital)

### Graph

#### 1. Product Daily Quality Performance

Selecting product will present graphical representation of its monthly data where x-axis denotes Days and y-axis denotes daily Quantity of products. Industry can have various products with various units of measurement. Various graphs will be displayed based on the unit of measurement. The Comparison of each product with its consent capacity is also represented in the graph.

Select the year, Month and date for which the user wishes to view data. The data visible will be 30 days prior to the date selected. Holding cursor on each line will enable the user to view Number of products manufactured each day. Consent line is portrayed to determine if non-compliance occurs in industry. Zoom in, Zoom out and Print option is provided.



**Figure 2.34 Product Daily Quality Performance**

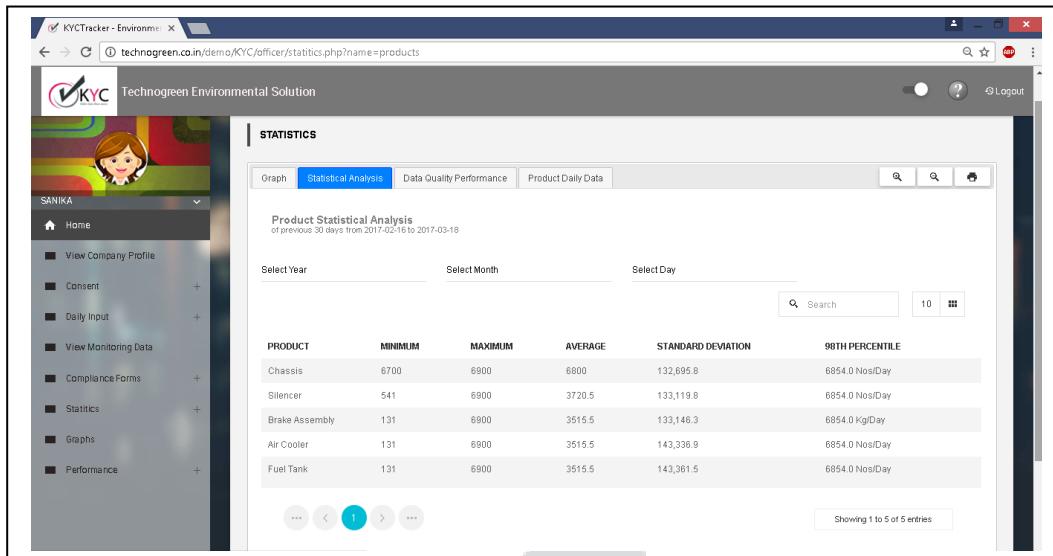
## Statistical Analysis

### 2. Product Statistical Analysis

Select the Year, Month and date for which user wishes to view data. Over here product along with their Minimum, maximum and average production, standard deviation and 98<sup>th</sup> percentile is given.

- Minimum and Maximum data visible is of that particular month
- The average data is the average of minimum and maximum data
- Standard deviation is determined by formula
- 98<sup>th</sup> percentile

Search option is placed so as to make user feasible to view particular data. In filter option officer can select the number of columns he wants to view. The officer can view desired data be selecting the particulars.



**Figure 2.35 Statistical Analysis**

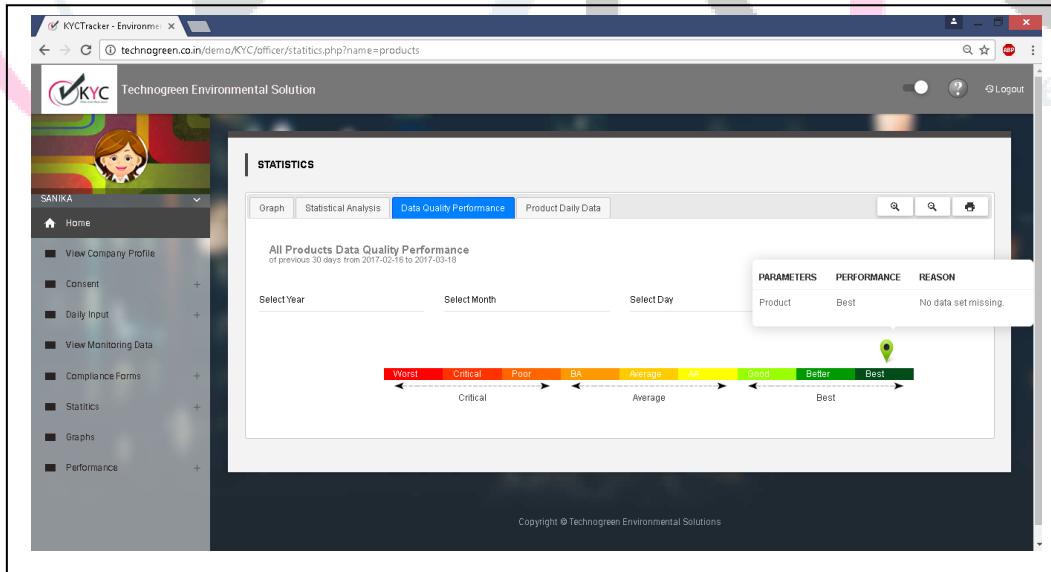
## Data Quality Performance

As the name says, the officer will be shown its data quality. Depending upon number of days the data is submitted or vice versa, the officer will be shown its quality.

The scale ranges from “Worst to Best”

The pointer will display Product name, Performance and the reason for that performance.

The Quality scale is calculated such that, if the officer forgets to fill daily data for 10 days, then it will be compared with 30 days (month) to determine its quality performance.



**Figure 2.36 Data Quality Performance**



## Product Daily Data

Select year, month and date for which the officer wishes to view data. The officer will be able to view quantity of product manufactured daily along with its unit. Warning will be displayed in last column. In warning the consent quantity of particular product is calculated on daily basis and accordingly based on the production of that particular product, the warnings are given. The warning will help officer to determine the number by which its production exceeded or is less.

Through search the officer can view data of any one product. Zoom in, Zoom out and print option is provided.

As stated above for product similarly officer can view data for By product, Raw Material , fuel, Hazardous waste from Process , Hazardous waste from PCF , Non-Hazardous waste from process and Non-Hazardous waste from PCF and Biomedical Waste.

The screenshot shows a web-based application interface for environmental tracking. At the top, there's a navigation bar with the KYC logo, the title 'Technogreen Environmental Solution', and a user profile for 'SANIKA'. Below the navigation is a sidebar with links like Home, View Company Profile, Consent, Daily Input, View Monitoring Data, Compliance Forms, Statistics, Graphs, and Performance. The main content area is titled 'STATISTICS' and has tabs for Graph, Statistical Analysis, Data Quality Performance, and 'Product Daily Data' (which is currently selected). A sub-section titled 'Products Daily Data' displays data from February 16, 2017, to March 18, 2017. It includes fields for 'Selected Year', 'Select Month', and 'Select Day', along with a search bar and a page size selector (10). The data table lists products, dates, quantities, units, and warnings. The 'Warnings' column contains messages such as 'Production was less by 149.3', 'Production was less by 24.3', and 'Production was less by 24.3'. At the bottom of the table are navigation arrows and a message indicating 1 to 10 of 1895 entries.

PRODUCT	DATE	QUANTITY	UNITS	WARNINGS
Chassis	2017-03-07	6700.00	Nos/Day	Production was less by 149.3
Chassis	2016-05-28	6825.00	Nos/Day	Production was less by 24.3
Chassis	2016-06-04	6825.00	Nos/Day	Production was less by 24.3
Chassis	2016-06-24	6825.00	Nos/Day	Production was less by 24.3
Chassis	2016-06-26	6825.00	Nos/Day	Production was less by 24.3
Chassis	2016-07-18	6825.00	Nos/Day	Production was less by 24.3
Chassis	2016-07-30	6825.00	Nos/Day	Production was less by 24.3
Chassis	2016-08-11	6825.00	Nos/Day	Production was less by 24.3
Chassis	2016-08-23	6825.00	Nos/Day	Production was less by 24.3
Chassis	2016-09-10	6825.00	Nos/Day	Production was less by 24.3

Figure 2.37 Product Daily Quality



### Water Consumption:

In water consumption the data which you have inserted as Daily data will be viewed as in graph.

Scroll down where you will be able to view “**Source Water Readings**” of last 30 days.

The data visible will be:

- No. of Staffs
- Source
- Start and End Reading along with Actual reading

Search option along with filter is provided. In search you can view the data as per your need. Depending upon the number of data you want to view click on number as given near the filter( suppose you want to view data of 25 days, then click on 25).

A button is provided in front of Filter where you can remove or select the column you want to view.

Quality indicator scale for “**Source Water Consumption Data Quality Performance**” is placed where depending upon frequency of your data submission Quality will be given.

As you scroll down graph for “**Filter Water Consumption**” will be displayed where depending upon the filters you have in Industry its Water Consumption will be shown. Here x-axis denotes last 30 days and y-axis denotes Water used in CMD. Color coding is given for better understanding

**Filter Reading:** Here the filter reading will be displayed where you will be able to see the type of Filter used along with its Start, End and Actual Consumption. Search option along with filter is provided. In search you can view the data as per your need. Depending upon the number of data you want to view click on number as given near the filter( suppose you want to view data of 25 days, then click on 25).

A button is provided in front of Filter where you can remove or select the column you want to view.

Under “**Filtered Water use Consumption**” you will able to view the process for which Filter is used. It can be used for process, cooling, DM , Drinking or any other purpose. The same “Filtered Water use Consumption” will be viewed under “Filtered Water use



Readings where you will be able to view start reading, end reading and actual reading of each filter for each day. Search option along with filter is provided. In search you can view the data as per your need. Depending upon the number of data you want to view click on number as given near the filter( suppose you want to view data of 25 days, then click on 25).

A button is provided in front of Filter where you can remove or select the column you want to view.

As you scroll down, you will be able to see “**Source Water Used Consumption**” where water which is not filtered will be displayed. In “**Source Water use Readings**” the officer will be able to view Source used type, its daily start , end reading and actual reading. Search option along with filter is provided. In search you can view the data as per your need. Depending upon the number of data you want to view click on number as given near the filter (suppose you want to view data of 25 days, then click on 25).

A button is provided in front of Filter where you can remove or select the column you want to view.

#### **“Waste Water Treatment”**

Under Waste Water Treatment the Officer will be able to view actual treated value. Which is calculated by subtracting Outlet and Inlet?

#### **“Treatment Plant Reading”**

Under Treatment Plant Reading you will be able to view the Treatment type given weather it is ETP/STP or both. Its Start reading, end reading and Actual Reading.

- Note:
1. The values viewed in graphs are Actual reading
  2. The Officer can print all the graphs by clicking on “Print” option displayed on each graph.



## 2.7 Graphs

The user will be able to view all the data in graphical format. This will help user for better understanding.

Select Graphs in Menu, and select Year, Month and day for which the officer wishes to view data. Graph of that particular day will be displayed along with the water quantity required for that day. Holding cursor on particular line will provide the detail.

Click on Graphs in Menu and select the data which you want to see as presented at extreme right side of the page. You can view the graphs of:

- Production VS Water Consumption
- Product
  - 1. Product in (Nos./Year)
  - 2. Products in (Kg/Year)
- Byproduct
  - 1. By Products in (nos./Year)
  - 2. By Products in (Kg/Year)
- Raw Material
  - 1. Raw Material in (MT/Month)
  - 2. Raw Material in (Kg/Month)
  - 3. Raw Material in (Litre/Month)
- Fuel
- Water Consumption
  - 1. Source zone
  - 2. Water treatment zone
  - 3. Filtered water use zone
  - 4. Source Water Used Zone
  - 5. Waste water zone
- Hazardous Waste from process
- Hazardous Waste from PCF





1. Hazardous waste from PCF in (Kg/Month)
  2. Hazardous waste from PCF in (Nos./ Month)
- Non-Hazardous Waste from Process
1. Non-Hazardous waste from Process (MT/Month)
  2. Non-Hazardous waste from Process in (Mt/Day)
- Non-Hazardous Waste from PCF

The following data can be viewed by officer:

- Daily
- Last Week
- Weekly
- Monthly
- Yearly

Officer and Management can view data of any specified day, month and week and last week data. In case you want to print the graph click on print option.

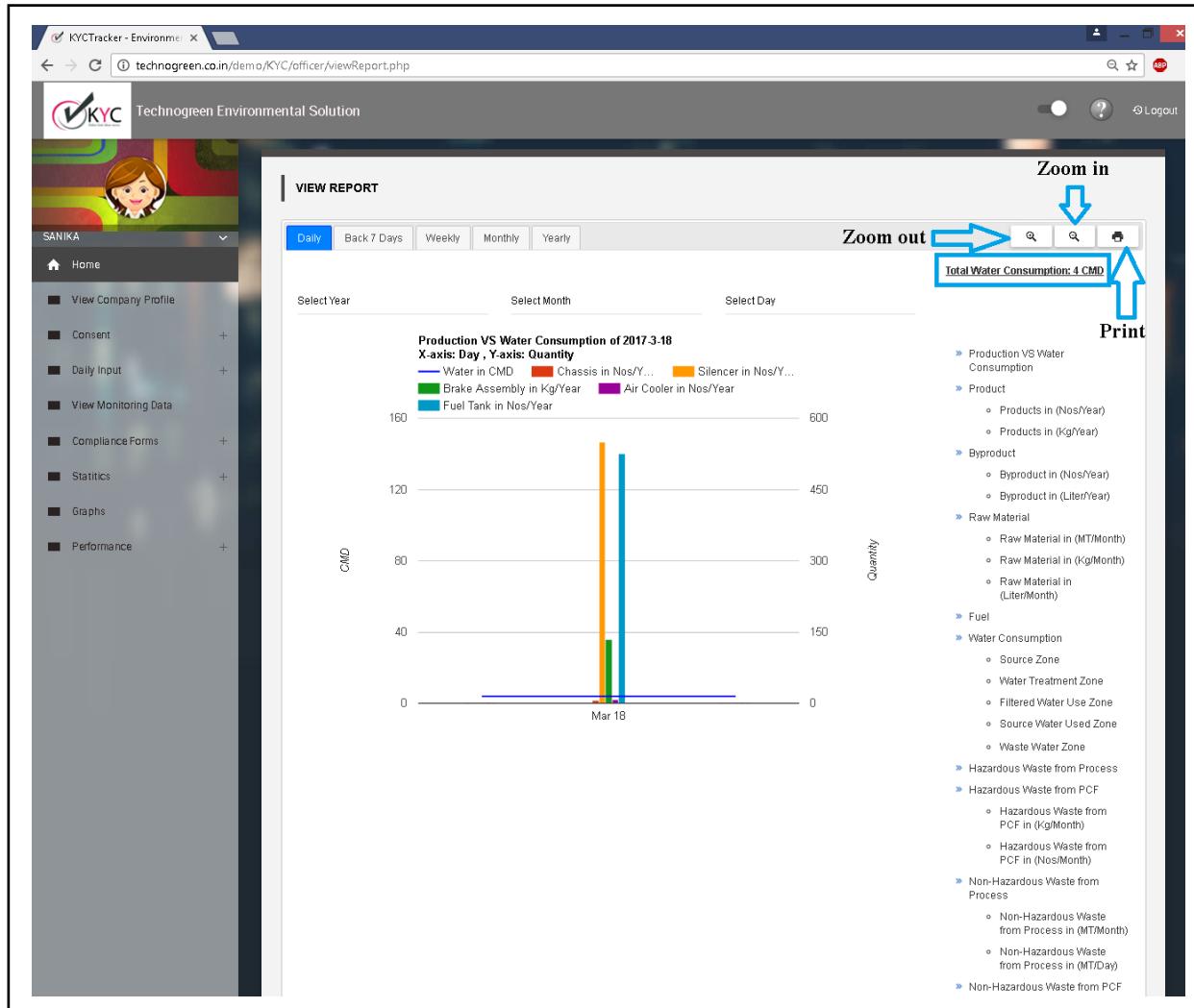
### Daily

In Daily data Officer first needs to select graph he wants to view and then select the year, month and day.

The Officer will be able to view all the products along with its quantity manufactured and water consumption on that particular day.

In Graph, x-axis denotes day and y-axis denotes CMD

Zoom in, Zoom Out and Print option is provided



**Figure 2.40 View Report: Daily**

## Back 7 days

Select Year, Month and day, the officer will be displayed data exactly seven days before the date selected

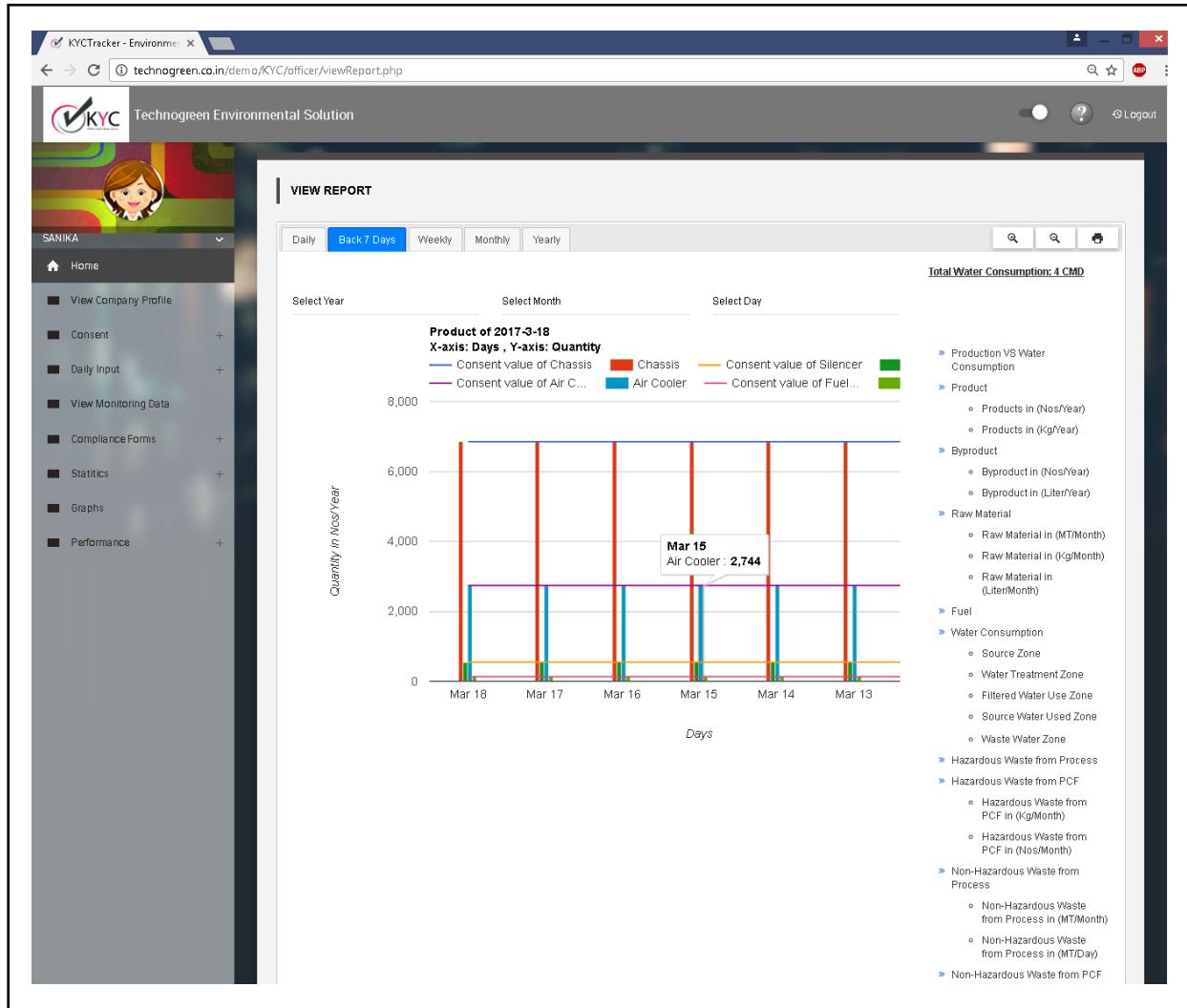
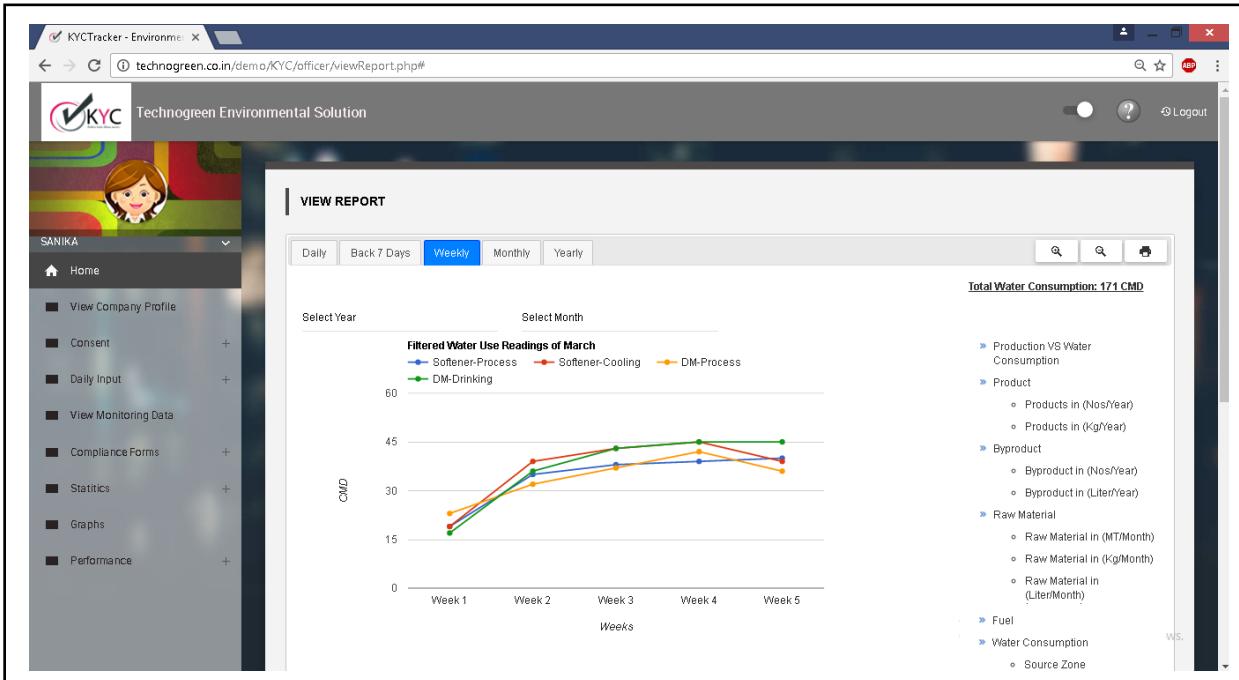


Figure 2.41 Back 7 days

## Weekly

Select the year and month whose weekly data officer wants to view.

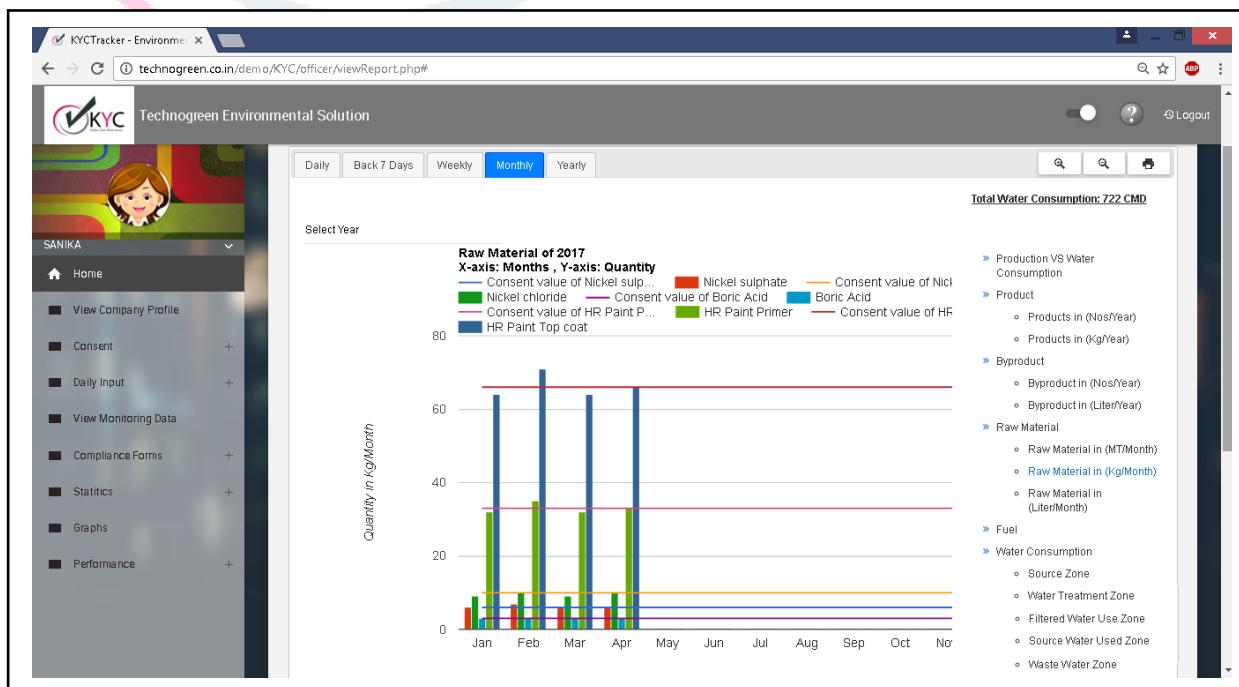
The quantity of products manufactured in week will be displayed along with the summation of water consumption for that particular week



**Figure 2.42 Weekly data graphs**

## Monthly

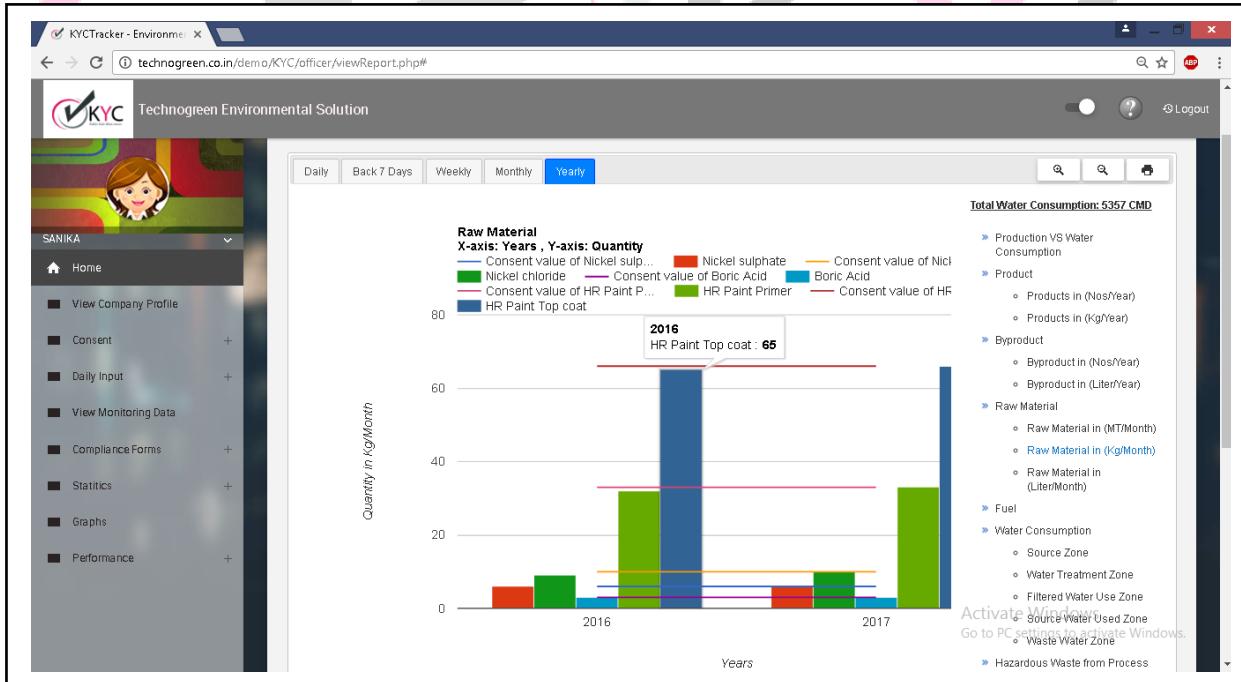
For viewing month, the officer needs to select particular year. Product quantity of that particular year will be displayed, where one can view the monthly data. The total water consumption for a particular month can be viewed by holding cursor on particular months “Water in CMD” line. Print option is provided.



**Figure 2.43 Monthly data graphs**

### Yearly

Once Yearly option is selected, the yearly details of production and water quantity consumed will be displayed



**Figure 2.44 Yearly data**



## 2.8 Performance

The user will be able to check performance of following:

- Product Performance
- By Product Performance
- Raw Material Performance
- Fuel Performance
- Water Performance
- Hazardous Waste from Process Performance
- Hazardous Waste from PCF Performance
- Non-Hazardous Waste from Process Performance
- Non-Hazardous Waste from PCF Performance
- Bio-Medical Waste ( applicable only if Industry category lies under Hospital)

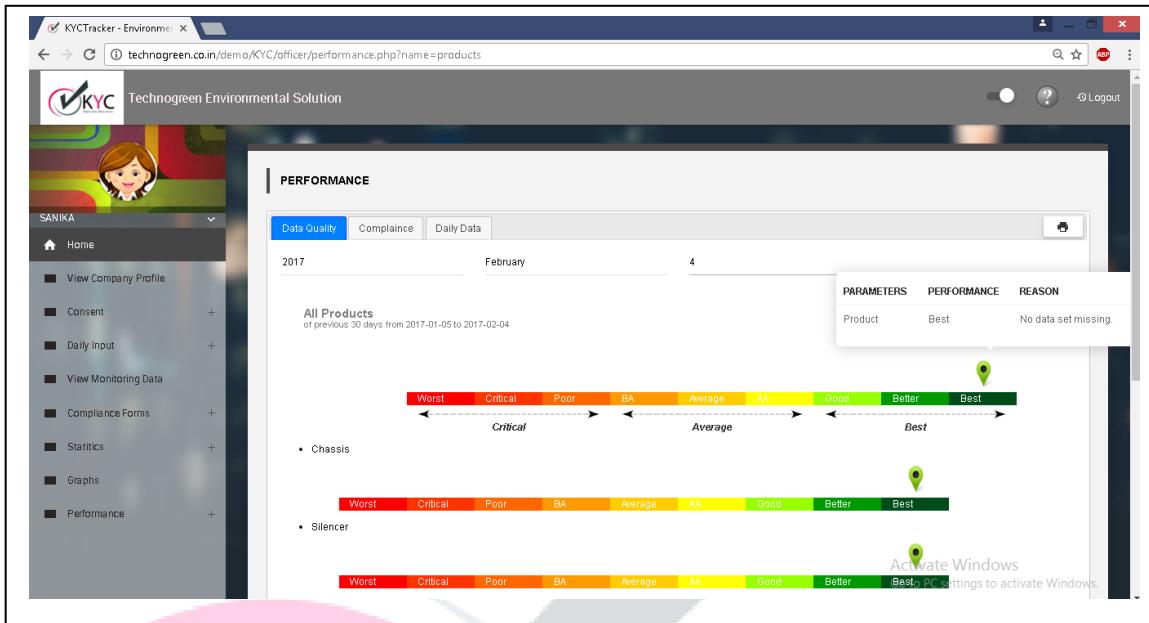
Every time the user needs to select Year, Month and Date whose performance he wishes to view. Monthly performance data can be only viewed.

### Data Quality

Suppose the user selects Products,

At first, the officer will be displayed with Quality indicator for "All Product Quality performance". The Quality indicator scale will be the average of Quality Indicator of Separate Products. The Quality Indicator/ Performance scale of all products is displayed below.

Print option is provided



**Figure2.45 All Product Data Quality**

## Compliance

Click on **Compliance** Tab, besides Data Quality.

In Compliance, the pointer will indicate the number of times product has exceeded consent quantity. Over here as per consent limit, the monthly consent quantity will be Calculated and based on the calculation the Reason on pointer will be displayed. The warning will state the percent of times the data has exceeded.

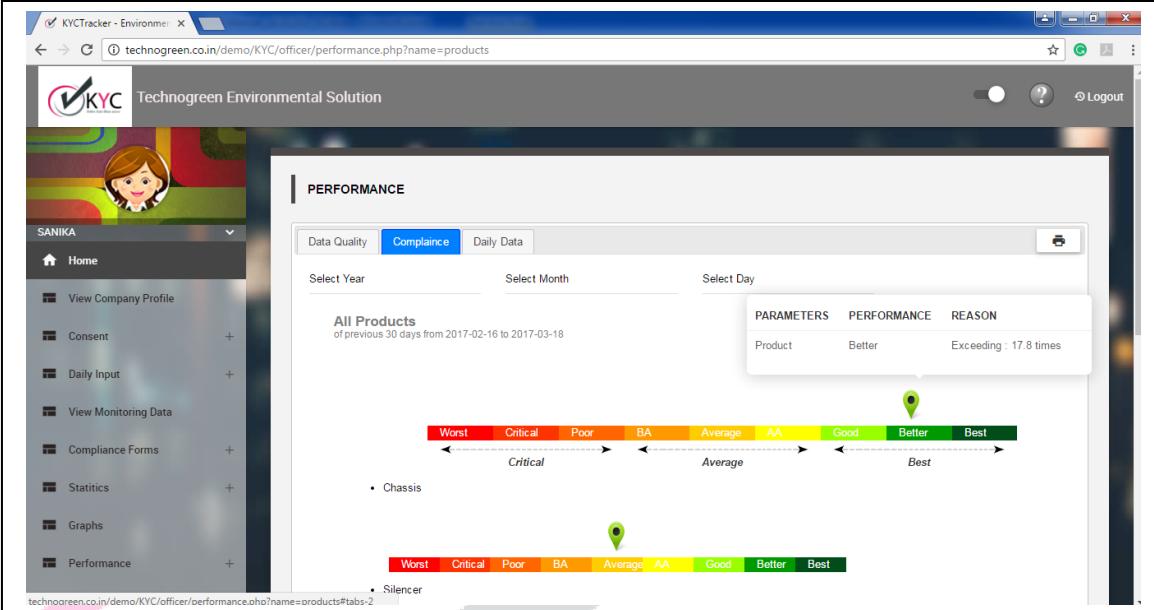


Figure 2.46 Compliance

## Daily Data

Select year, Month and date to view the daily data

In Daily data, officer will be shown product name along with the date of production its quantity, units and warning. Search option is provided so that user can view the data of his choice. Column selector is also provided where, user can select the data which he wants to view by unselecting the options.



The screenshot shows the KYCTracker application interface. On the left, there is a sidebar with a user profile picture of a woman named SANIKA and a navigation menu with links like Home, View Company Profile, Consent, Daily Input, View Monitoring Data, Compliance Forms, Statistics, Graphs, and Performance. The main content area has a title 'PERFORMANCE' and a tab bar with 'Data Quality', 'Compliance', and 'Daily Data' (which is selected). Below the tabs are three input fields: 'Select Year', 'Select Month', and 'Select Day'. A message below the fields says 'All Products of previous 30 days from 2017-02-16 to 2017-03-18'. At the bottom, there is a table with columns: PRODUCT, INPUT DATE, QUANTITY, UNITS, and WARNINGS. The table contains six rows of data for 'Chassis' products.

PRODUCT	INPUT DATE	QUANTITY	UNITS	WARNINGS
Chassis	2017-03-07	6700.00	Nos/Day	--
Chassis	2017-03-02	6844.00	Nos/Day	--
Chassis	2017-02-28	6844.00	Nos/Day	--
Chassis	2017-02-25	6844.00	Nos/Day	--
Chassis	2017-03-03	6844.00	Nos/Day	--

Figure 2.47 Daily Data

## 2.9 Logout

If the user wants to logout the application, click on logout placed at the top of the page as shown in Figure. While filling any kind of data please do not logout the page. In case if the user logs out due to network issue, system failure or in any other emergency situations the user have to do following steps:

- Login the user
- Click on Consent, view consent
- Click on the consent in which you want to add data
- Click on Modify and then add the data which you want to add.
- Save the changes and do the same for all the data

## 3. THIRD PARTY



Third party user will be from company or can even be external one. The third party user is the one who should submit the Stack Monitoring Details, Ambient Details, Water Details (Effluent and Sewage details). Third party will be only able to view the Company details which are submitted by Admin.

When you login the page, click on “Add” under Menu, where first you have to upload stack analysis report details.

### 3.1 Stack

Click on Monitoring Forms to upload Monitoring Report, enter the date of “Sample Collection” and “Report Submission.”

The stack pollutant entered while filling the Consent will automatically be displayed in form, where Third Party needs to enter the analysis reports.

Along with parameter the third party user should also enter

- Gas quantity
- Gas temperature
- Exit gas velocity
- Hours of operation

Once you submit the Stack Details, Ambient Details will be displayed





192.168.1.18/20161011//

Technogreen Environmental Solution

Logout

MONITORING DETAILS

Stack

Sample Collected Date:	mm/dd/yyyy	Report Submitted Date:	mm/dd/yyyy
1) Stack Name :	1	Attached to :	D. G. Set
Gas Quantity in Nm <sup>3</sup> /Hr	Gas Temperature in 0° C	Exit Gas Velocity in m/sec	Capacity : 625 KVA
Gas Quantity	Gas Temperature	Exit Gas Velocity	Hours of Operation
Stack Pollutants:	Concentration	Units	Hours of Operation
Pollutants		mg/Nm <sup>3</sup>	
SPM			

CANCEL SUBMIT

< >

Ambient

Water

Copyright © Technogreen Environmental Solutions

Figure 3.1 Stack Details

OKYC  
better late than never



### 3.2 Ambient

As provided, enter the date of “Sample Collection” and “Report Submission.” The Ambient Parameter provided while filling Consent will be displayed where the third party should enter the ambient Concentration as given in your report.

192.168.1.18/20161011/ 192.168.1.18/20161011/KYC%5b2%5d/third\_party/analysing.php

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MONITORING DETAILS

Stack

Ambient

Sample Collection: mm/dd/yyyy Report Submission: mm/dd/yyyy

1) Location Name : Near Main Gate Criteria : Up Wind

Ambient Pollutants

Pollutants	Conc.	Units
Sulphur Dioxide (SO <sub>2</sub> )		mg/Nm <sup>3</sup>
Particulate Matter PM10		mg/Nm <sup>3</sup>
Particulate Matter PM2.5		mg/Nm <sup>3</sup>

Water

CANCEL SUBMIT

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Figure 3.2 Ambient Details



### 3.3 Water (Further divided as)

- Effluent Pollutant
- Sewage Pollutant

Click on Effluent Pollutant where the parameter submitted at the time of consent will appear. Enter Inlet and Outlet Concentration for parameter displayed as per testing carried out by Third Party. This should be carried out for ETP as well as STP.

The screenshot shows a computer monitor displaying a web-based application. The URL in the browser is 192.168.1.18/20161011/KYC%5b2%5d/third\_party/analysing.php. The application has a dark theme with orange highlights. At the top, there's a header bar with the KYC logo and the text "Technogreen Environmental Solution". Below this is a navigation menu with categories like "Stack", "Ambient", and "Water". Under "Water", there are two sub-options: "Effluent Pollutant" and "Sewage Pollutant", with "Effluent Pollutant" currently selected. A large modal window titled "MONITORING DETAILS" is open. It contains fields for "Sample Collection" (mm/dd/yyyy) and "Report Submission" (mm/dd/yyyy). There are four rows for parameters: pH, SS, and Biological Oxygen Demand (BOD), each with "Inlet (Conc.)", "Outlet (Conc.)", and "Unit" fields. The "BOD" row has "mg/lit" in the unit field. At the bottom of the modal are "CANCEL" and "SUBMIT" buttons. The footer of the application displays the copyright notice "Copyright © Technogreen Environmental Solutions".

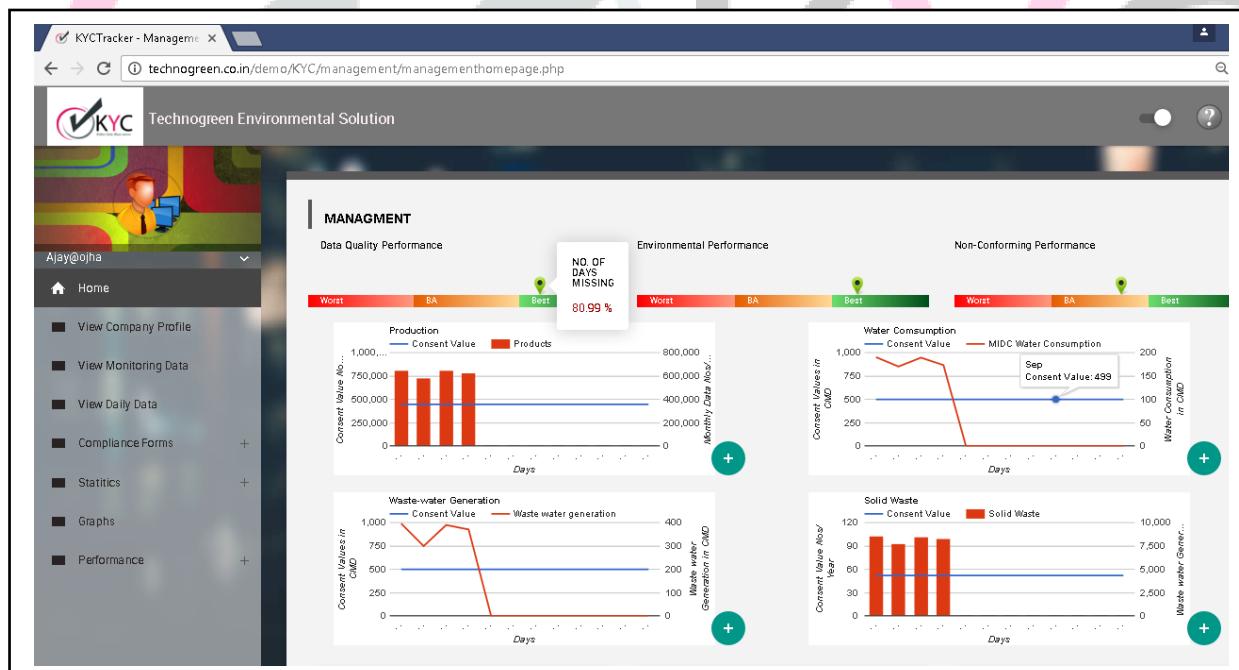
**Figure 3.3 Water parameter details**

## 4. Management

Management will be the Higher Authority. The role of Management is to only View the data submitted by Environmental officer and Third Party user. In order to make work easier the management will be demonstrated the data in graphical format.

The Management will be able to view:

- View Company Profile
- View Monitoring Data
- View Daily Data
- Statistics
- Graphs
- Performance



**Figure 4.1 Management**



Figure 4.2 Sectoral Data Quality Performance

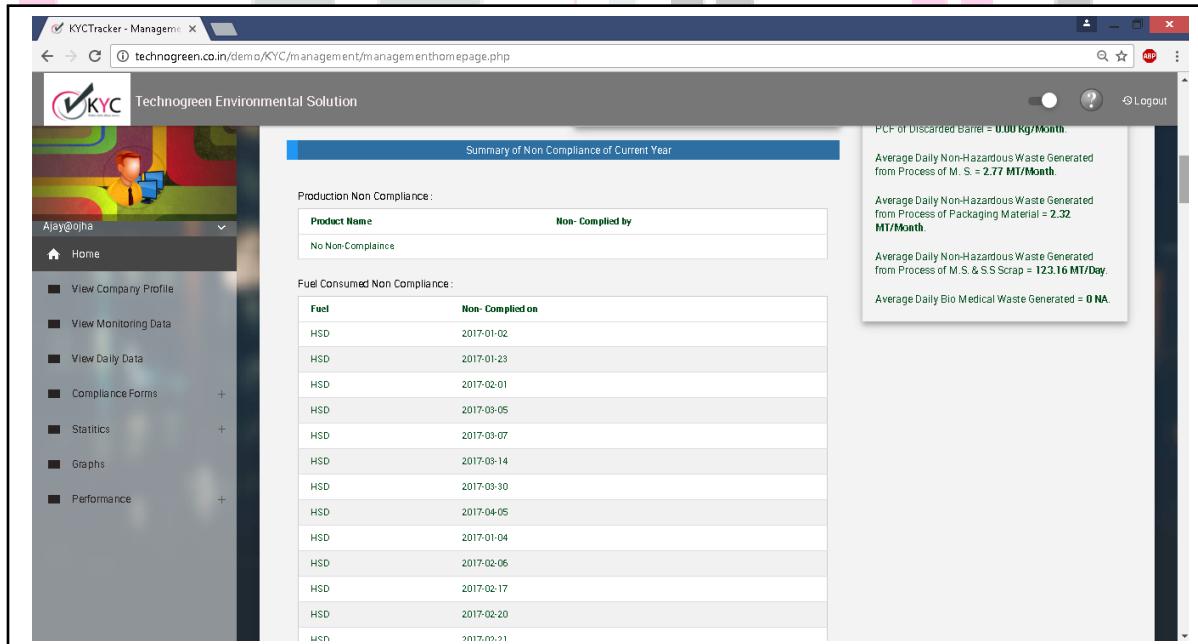


Figure 4.3 Summary of Non-Compliance

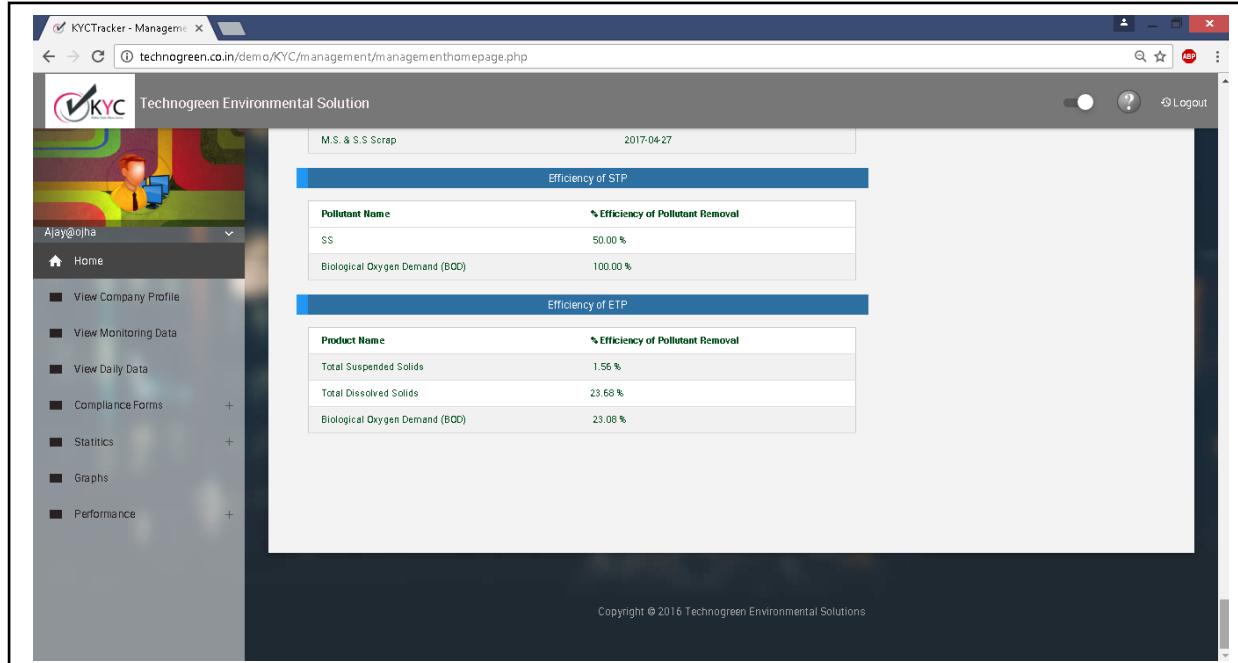


Figure 4.4 Efficiency of treatment plant



#### **4.1 View Company Profile:**

After clicking “View Company Profile”, Management will be able to view company profile submitted by the Admin.

#### **4.2 View Monitoring Data**

Under “View Monitoring Data”, Management will be able to view:

- Stack Details
- Ambient Air Details
- Water Details (Effluent and Sewage)

To view these details, after clicking on “View Monitoring Data” the management shall first select the Year and Month whose data is to be viewed

The data can be printed directly through “Print” option.



### 4.3 Statistics

Under Statistics the Management will be able to view

- Products
- Byproduct
- Raw Material
- Fuel
- Hazardous Waste Process
- Hazardous Waste from PCF
- Non-Hazardous Waste from Process
- Non-Hazardous Waste from PCF.
- Water Consumption
- Waste Water generation

Select the option as per requirement.

#### Product

Selecting Products will redirect the management, where graphical representation of 30 days data will be displayed where x-axis denotes Days and y-axis denotes Quantity.. Color coding is given for each product for better understanding.

#### Product Daily Quality Performance

Over here daily product along with their Minimum, maximum and average production, standard deviation and 98<sup>th</sup> percentile is given.

Search option is provided to search and view products as per choice. Beside search option filter option is displayed where you can select the columns you want to view. All the columns can be removed by deselecting particular option.

#### “All product data quality performance”

Select the Year, month along with the “data from which”, “to date” the data you want to view.

Quality indicator scale is placed at the bottom where depending upon frequency of your data submission Quality will be given. For e.g if an Officer forgets to submit daily data for



3-4 days it will affect the data quality performance and you will be shown No. of days missing in % format.

At the end, “**Product Daily Data**” will be displayed where product, date of production of that particular product its daily generation quantity and units will be displayed. Warning will be displayed stating “Production exceeds consent limit” or “Production is within Consent Limit”.

As stated for product similarly will be displayed for By-product, Raw Material, fuel, Hazardous waste from Process, Hazardous waste from PCF, Non-Hazardous waste from process and Non-Hazardous waste from PCF and Biomedical Waste.

#### **Water Consumption:**

Daily Data entered will be viewed under Water Consumption in graphical format.

Scroll down to view “**Source Water Readings**” of last 30 days. The data visible will be:

- No. of Staffs
- Source
- Start and End Reading along with Actual reading

Search option along with filter is provided. Search option is provided to view the data as per your need. Depending upon number of data to be viewed click on number as given near the filter (suppose you want to view data of 25 days and then click on 25).

Quality indicator scale for “**Source Water Consumption Data Quality Performance**” is placed where depending upon frequency of your data submission Quality will be given.

After scrolling “**Filter Water Consumption**” will be displayed where depending upon the filters water consumption in Industry will be shown. Here x-axis denotes last 30 days and y-axis denotes Water used in CMD. Color coding is given for better understanding

**Filter Reading:** Filter reading along with its Start, End and Actual Consumption will be displayed. Search option along with filter is provided. Depending upon the number of data to be viewed select number as given near the filter( suppose you want to view data of 25 days, then click on 25).



**“Filtered Water use Consumption”** will display the process for which Filter is used. It can be used for process, cooling, DM, Drinking or any other purpose. The same “Filtered Water use Consumption” will be viewed under “Filtered Water use Readings” where you will be able to view start reading, end reading and actual reading of each filter for each day. Search option along with filter is provided. In search you can view the data as per your need. Depending upon the number of data you want to view click on number as given near the filter (suppose you want to view data of 25 days, then click on 25). A button is provided in front of Filter where you can remove or select the column you want to view.

As you scroll down, you will be able to see “**Source Water Used Consumption**” where water which is not filtered will be displayed. In “**Source Water use Readings**” the officer will be able to view Source used type, its daily start, end reading and actual reading. Search option along with filter is provided. In search you can view the data as per your need. Depending upon the number of data you want to view click on number as given near the filter (suppose you want to view data of 25 days, then click on 25).

A button is provided in front of Filter where you can remove or select the column you want to view.

#### **“Waste Water Treatment”**

Under Waste Water Treatment the Officer will be able to view actual treated value. Which is calculated by subtracting Outlet and Inlet?

#### **“Treatment Plant Reading”**

Under Treatment Plant Reading you will be able to view the Treatment type given whether it is ETP/STP or both. Its Start reading, end reading and Actual Reading.

**Note:** 1. The values viewed in graphs are Actual reading

1. The Officer can print all the graphs by clicking on “Print” option displayed on each graph.

#### **Waste Water Generation**

Under Wastewater generation the management will be able to view the graphical representation of wastewater generated by industry for various processes. Over here you



will be able to view monthly data of waste water generated. X-axis denotes No. of days and y-axis denotes Wastewater generated in CMD.

Below graphical representation the management will be able to view the No. of days data is entered by Officer through Quality Indicator Scale. The Quality scale ranges from Worst to Best

#### 4.4 Graphs

Graph option is provided so as to show user all his data in graph format for better understanding.

Click on Graphs in Menu and select the data which you want to see as presented at extreme right side of the page. You can view the graphs of:

- Product
- Byproduct
- Raw Material
- Fuel
- Production VS Water Consumption
- a. Water Consumption
  - Source zone
  - Water treatment zone
  - Filtered water use zone
  - Source Water Used Zone
  - Waste water zone

As per your requirement you can view the data on

- Daily
- Weekly
- Monthly
- Yearly



As per requirement officer and Management can view data of particular date, month and week. In case you want to print the graph click on print option.

### **Daily**

Select the year, month and day whose graph you want to view

After selecting the date, select the type of graph you want to view from Production VS Water Consumption, Water Consumption, Source zone, Water treatment zone, Filtered water use zone, Waste water zone, Waste water generation, Product and Fuel data.

To print the graph click on print option placed on the screen at the top.

### **Weekly**

Select the year, month and day whose graph you want to view

After selecting the date, select the type of graph you want to view from Production VS Water Consumption, Water Consumption, Source zone, Water treatment zone, Filtered water use zone, Waste water zone, Waste water generation, Product and Fuel data.

To print the graph click on print option placed on the screen at the top.

### **Monthly**

Select the year, month and day whose graph you want to view

After selecting the date, select the type of graph you want to view from Production VS Water Consumption, Water Consumption, Source zone, Water treatment zone, Filtered water use zone, Waste water zone, Waste water generation, Product and Fuel data.

To print the graph click on print option placed on the screen at the top.

### **Yearly**

Select the year whose graph you want to view

After selecting the date, select the type of graph you want to view from Production VS Water Consumption, Water Consumption, Source zone, Water treatment zone, Filtered water use zone, Waste water zone, Waste water generation, Product and Fuel data.

To print the graph click on print option placed on the screen at the top.



#### 4.5 Performance

The user will be able to check performance of following:

- Product Performance
- By Product Performance
- Raw Material Performance
- Fuel Performance
- Water Performance
- Hazardous Waste from Process Performance
- Hazardous Waste from PCF Performance
- Non-Hazardous Waste from Process Performance
- Non-Hazardous Waste from PCF Performance
- Bio-Medical Waste ( applicable only if Industry category lies under Hospital)

Every time the user needs to select Year, Month and Date whose performance he wishes to view. Monthly performance data can be only viewed.

Suppose the user selects Products,

At first, the officer will be displayed with Quality indicator for "All Product Quality performance". The Quality indicator scale will be the average of Quality Indicator of Separate Products. The Quality Indicator/ Performance scale of all products is displayed below.

Print option is provided

#### Compliance

Click on **Compliance**, besides Data Quality.

In Compliance, the pointer will indicate the number of times product has exceeded consent quantity. Over here as per consent limit, the monthly consent quantity will be



Calculated and based on the calculation the Reason on pointer will be displayed. The warning will state the percent of times the data has exceeded.

### Daily Data

Select year, Month and date to view the daily data

In Daily data, officer will be shown product name along with the date of production its quantity, units and warning. Search option is provided so that user can view the data of his choice. Column selector is also provided where, user can select the data which he wants to view by unselecting the options.

### 4.6 Logout

If you want to logout the application, click on logout placed at the top of the page as shown in Figure. While filling any kind of data please do not logout the page. In case if you log out due to network issue, system failure or in any other emergency situations you have to do following steps:

- Login the user
- Click on Consent, view consent
- Click on the consent in which you want to add data
- Click on Modify and then add the data which you want to add.
- Save the changes and do the same for all the data.