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The performance of the existing STP and the statutory compliance

Mahindra World City has constructed 2 nos. of 1mgd capacity Sewage Treatment Plants totaling to 2mgd capacity.

The first STP was commissioned on 1st March 2007 and the second STP was commissioned on 3rd February 2010.

Description of the Sewage Treatment Plant

The sewage treatment plant shall comprise the following:

i. **Pretreatment:**

- Terminal pumping station
- Stilling chamber
- Manual bar screens.
- Grit chamber

i. **Biological treatment:**

- Aeration tank
- Secondary clarifier
- Return sludge pumps

ii. **Sludge treatment:**

- Gravity thickener
- Centrifuge

The raw sewage from the manhole flows in to the wet well of the terminal sewage pumping station designed for phase I and II. The sewage pumping station consists of inlet channel. 2 Nos. screen chambers fitted with manual bar screens and guide channels for lifting the screen and 2 nos. wet wells of size 4.0m x 4.3m x 10.5m total depth. The pumping station are provided with sluice gates for isolation of the inlet compartment, screen chambers and wet wells. 3 Nos. vertical submersible pumps each of capacity 375 m^3/ hr at 15 m head are provided in a pumping station.

The raw sewage is then pumped to the stilling chamber before it overflows in to the screen chamber. The screen chamber is equipped with the manual bar

For Alliance Budget Housing India Pvt Ltd.

D. S. Reddy

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screen having 25 mm openings and MS flats of 10 x 50 mm for removal of floating matter.

A platform is provided to clean the screen and dispose the debris to a pit provided below the chamber. The sewage from the screen chamber flows to 1 no. grit chambers (also called Detroiter mechanism) for removal of grit. The grit chambers are provided with sluice gates for isolation of individual chamber.

The sewage after the grit removal flows into the aeration tank for the reduction in BOD. The aeration tank is designed on the extended aeration principle considering a MLSS of 3000 mg/lit and FM ratio as 0.15. The oxygen required by the micro organisms is supplemented by providing fixed type mechanical surface aerators. The bio mass produced in the aeration tank shall be made to settle in the secondary clarifier. A part of the sludge settled in the clarifier will be recycled back to the aeration tank to maintain the desired MLSS concentration and the excess sludge is sent to the gravity thickener. The principle advantage of the process adopted is that a highly mineralized / digested sludge is produced thus eliminating any further requirement for sludge digestion. The BOD removal efficiency is in the range of 95% - 98%.

The excess sludge from the secondary clarifier is pumped to the thickener for further thickening of sludge. Polyelectrolyte is added in the thickener for better dewatering efficiency. The thickened sludge is taken to the centrifuge by means of screw pumps for further dewatering. The overflow from the thickener flows to a thickener overflow sump from where the same is pumped back to the aeration tank. The filtrate from the centrifuge is also collected in a sump and then pumped to the aeration tank. The treated water is finally stored in the treated water sump prior to reuse. The treated water thus recovered shall be fit for reuse in flushing system and gardening/ green belt development purposes.

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Table 1. Design Details of STP : 1 MGD capacity (1 MGD X 2 Modules) STP DESIGN	
1. Terminal Sewage Pumping Station	
Design flow	18.0 MLD (peak flow)
Required volume	125 m3
Size of each wet well	2 x 4 x 4.3 x 3.3m SWD (9.35m TD)
Total volume provided	137.6 m3
2. Stilling Chamber	
Design flow	18.0 MLD (peak flow)
Required volume	12.5 m3
Size of stilling chamber	3.0 x 3.0 x 1.4 m SWD
Total volume provided	12.6 m3
3. Screen Chamber	
Design flow	18.0 MLD (peak flow)
Velocity through screen	0.9 m/sec
Size of screen chamber	0.6m wide x 0.5m deep
4. Grit Chamber	
Design flow	18.0 MLD (peak flow)
Sp. Gravity of the grit	2.65
Particle size	0.15 mm
Surface loading rate	1000-1555 m3/m2/d
5. Aeration Tank	
Design flow	9 MLD
Size of each aeration tank proposed	41m x 20.5m x 3.0m SWD (0.5m FB)

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Volume provided	5043 m3
6. Secondary Clarifier	
Design flow	18.0 MLD (peak flow)
Surface loading rate	25-35 m3/m2/d for peak flow
Area	600 m^2
Dia of the clarifier	27.64 m (Say 28.0 m)
Provide 1 no. clarifier of size	19.50m dia x 3.0m SWD
7. Thickener	
Solids loading rate	30 Kg / m^2/d
Provide 1 No Thickener of size	7.5m dia x 2.5m SWD
8. Thickener Overflow Sump	
Size of tank proposed	3.5m x 3.5m x 2.0m SWD (0.5m FB)
Volume provided	24.5 m3
9. Treated Waste Water Sump/ V – Notch Chamber	
Design flow	9000 m^3/d
Retention time	30 min
Size of tank	10m x 7.5m x2.5m SWD
Volume	187.5 m3

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Photograph showing Pumping Station to Aeration Tank Central STP at Mahindra World City



Photograph showing Aeration Tank to lagoons at Central STP - Mahindra World City

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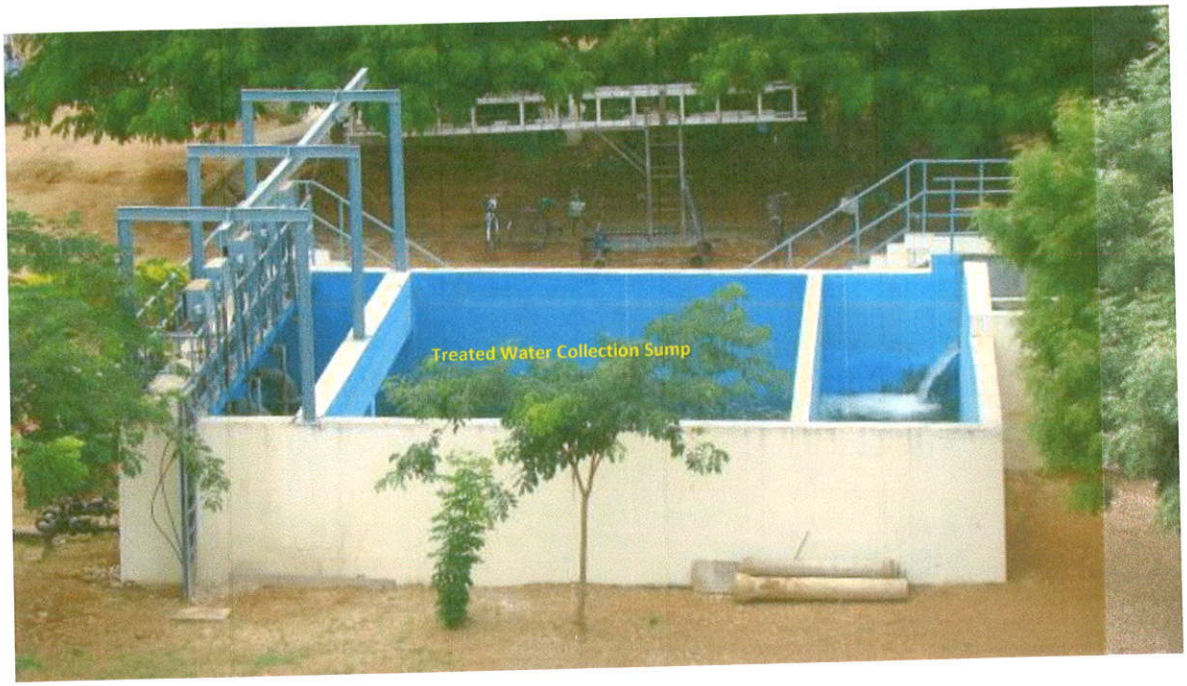


Fig. . Photographs of the Central STP at Mahindra World City

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D.S. Reddy

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Area of Developments

Water supply – Source from MWC

Bore Water will be supplied by Mahindra World City.

Sewage Disposal

We shall be making use of the existing STP provided by the park developer MWC for treaty the sewage generated within our facility via the existing sever lines outside the facility connecting to the common STP of MWC

Solid waste Disposal

Solid waste disposal which is collected from the apartment will be disposed through Mahindra World city .

Fire Fighting

Fire Fighting – Fire Fighting service is provided as per norms.

Rain Water Harvesting

Proper rainwater harvest & storm water drain design has been proposed in and across the project boundary and same shall be maintained proper during operation.

For Alliance Budget Housing India Pvt Ltd.

Authorised Signatory

mahindra World City
Chennai

Mahindra World City Developers Limited
CIN : U92490TN1997PLC037551
Administrative Block, Central Avenue
Mahindra World City
Chengalpattu (Taluk & District)
Pincode - 603 004
Tel : +91 44 4940 0000
www.mahindraworldcity.com

Date: 09.08.2023

To

M/s. Alliance Budget Housing India Pvt Ltd,
Plot No: 17/1, 1st Cross Road,
2nd Avenue,
Mahindra World City,
Chengalpattu District
Tamil Nadu 603 004

Sir,

Sub: Fresh water requirement –Alliance Budget Housing India Pvt Ltd– Reg
Ref: Your letter dated 26.07.2023.

With reference to your request under reference, we wish to inform you that Mahindra World City Developers Limited will supply the water requirement of 1069 KLD, through its approved sources as per availability.

Thanking you,

Yours faithfully,

for **MAHINDRA WORLD CITY DEVELOPERS LIMITED,**

Authorized Signatory.

MAHINDRA WORLD CITY DEVELOPERS LIMITED
CHENGALPATTU
603 004

mahindra World City
Chennai

Mahindra World City Developers Limited
CIN : U92490TN1997PLC037551
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Date: 09.08.2023

To,

M/s. Alliance Budget Housing India Pvt Ltd,
Plot No: 17/1, 1st Cross Road,
2nd Avenue,
Mahindra World City,
Chengalpattu District
Tamil Nadu 603 004

Sir,

Sub: Connection to Central STP – Alliance Budget Housing India Pvt Ltd– Reg
Ref: Your letter dated 26.07.2023

We wish to inform you that Mahindra World City has already set up a 2 MGD capacity STP, to cater for the park occupants.

Sewage generation of 1521 KLD from your unit could be connected to the central sewer network of Mahindra World City for treatment at our centralized STP.

As per the instruction from TNPCB, you must install an EMF meter at the final discharge point, with online monitoring capability, which is mandatory as per TNPCB norms. Also, the EMFM monthly reading should be submitted on or before the 4th of every month without fail to this office.

Thanking you,

Yours faithfully,

for **MAHINDRA WORLD CITY DEVELOPERS LIMITED**

Authorized Signatory.

MAHINDRA WORLD CITY DEVELOPERS LIMITED
CHENGALPATTU
603 004



our services doesn't just end there

Buying & Selling Services

Property Buying Assistance, Property Selling Support, Market Price Analysis, Owner Outreach and Negotiation.

Legal & Documentation Services

Certified EC, Patta, legal opinions, property verification, due diligence, litigation solutions, and legal heir certificates.

Property Development & Approvals

Building plan approvals, construction, layout and sub-division approvals, zone conversion, and occupancy certification.

NRI & Investment Services

Escrow Services, Rentals, Litigation Solutions, Property Valuation and Property Management

Compliance & Special Services

Demolition, Vaasthu checks, regularization of unauthorized buildings, and office space solutions.



empowering your real estate decisions with smart tools

Property Valuation & Cost Estimation

Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

Ownership, Compliance & Legal Verification

Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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We're honored to be part of your real estate journey

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