

# KERALA WATER AUTHORITY

SEWERAGE CIRCLE TRIVANDRUM



**DPR FOR THE CONSTRUCTION OF 5 MLD STP,  
NETWORK & ALLIED COMPONENTS AT  
THIRUVALLA MUNICIPALITY IN  
PATHANAMTHITTA DISTRICT  
Volume I**



**KERALA**

**2021**

## CONTENTS

Contents	Page No.	
	Executive Summery	5
	Abstract	6
	Project at a Glance	7
1	Chapter-1	8
1.1	Introduction	8
1.2	City Profile	8
1.2.1	Topography	8
1.2.2	Geological Condition	10
1.2.3	Water Resources	11
1.2.3.1	Surface Source	11
1.2.3.2	Ground Water Potential	11
1.2.4	Climate and Rain Fall	11
1.2.5	Demography	11
1.2.6	Emerging issues and concerns	12
1.2.7	Literacy	12
1.2.8	Future population	12
1.2.9	Economic base	12
1.2.10	Industries	13
2	Chapter – 2 Project Definition, Concept & Scope	14
2.1	Scope of Work	14
2.2	Land	14
2.3	Collection & Conveyance System	14
2.3.1	Sewer Network	14
2.3.2	Population Forecasting	15
2.3.3	Design Period	15
2.3.4	Estimation of Sanitary Sewage	16
2.3.4.1	Per capita Sewage Flow	16
2.3.4.2	Peak Factor	16
2.3.4.3	Ground Water Infiltration	17
2.3.4.4	Unauthorized Roof Water Connection	17
2.3.4.5	Hydraulics of Sewer	17
2.3.4.6	Selection of Pipes	18
2.3.4.7	Depth of Flow	18
2.3.4.8	Velocity of Flow	18
2.3.4.9	Minimum & Maximum Cover	19
2.3.4.10	Laying Sewerage Lines Through Roads	19
2.4	Sewer Appurtenance – Manholes	19
2.5	Sewerage Pumping Stations - Collection Well & Pump House	20
3	Chapter – 3 Project Cost	21
3.1	Land Development	21
3.2	Physical Infrastructure	21
3.2.1	Sewerage Pumping Mains	21
3.2.2	Installation of Pump Sets	21
3.2.3	Collection well and Pump Houses	21
3.2.4	Sewer Network & RCC Manholes	21

	3.2.5	Road Restoration Charges	21
	3.2.6	Power Allocation and allied works	22
	3.3	Cost of Shifting Utilities	22
	3.4	Contingencies	22
4		Chapter -4 Design of Sewerage System Components	23
	4.1	Design of Sewerage Network	23
	4.2	Sewerage network layout image	25
	4.3	Pumping Main	26
	4.3	Pump sets	27
	4.4	Design of Collection Wells	29
5		Technology for STP	30
	5.1	Sewage Treatment technology	30
	5.2	Treatment units	31
	5.2.1	Pretreatment	31
	5.2.1.1	Grit removal	31
	5.2.1.2	Parshall flume	32
	5.2.1.3	Equalisation tank	32
	5.2.2	Secondary treatment	33
	5.2.2.1	Moving bed bio reactor technology	33
	5.2.2.2	Process benefits	34
	5.2.2.3	Features of MBBR	35
	5.2.2.4	MBBR waste water treatment process alternatives	36
	5.2.2.5	Post anoxic de-nitrification alternative	36
	5.2.2.6	Nitrification tank	37
	5.2.2.7	De-nitrification process in the reactor	39
	5.2.2.8	Secondary clarifier	39
	5.2.2.9	Clarified water collection tank	39
	5.2.2.10	Sludge collection sump	39
	5.2.2.11	Dewatering unit	39
	5.2.3	Tertiary treatment	39
	5.2.3.1	Pressure sand filter	40
	5.2.3.2	Activated carbon filter	40
	5.2.3.3	Chlorine contact tank	41
	5.2.3.4	Treated water tank	31
	5.2.4	Sludge management	42
	5.2.5	Process flow & Design	42
6		Chapter-6 Co-treatment of faecal sludge and septage with sewage	66
7		Chapter-7 Operation & Maintenance	67
8		Chapter-8 Conclusion	69

List of Figures

Fig No.	Description	Page No
1.1	Location Map	10
5.1	Hydraulic flow diagram	31
5.2	Essential components of MBBR	35
5.3	MBBR Media	36
5.4	Nitrification and de-nitrification reactors	37
5.5	Pressure sand filter	40
5.6	Activated carbon filter	41
5.7	Layout of STP	41
5.8	Process flow & Design	42

List of Tables & Drawings

Table No.	Description	Page No
1	Population Forecasting	15
2	Sewerage generation from project area	16
3	Peak Factor Values	16
4	Ground Water Infiltration	17
5	Peak Flow Calculation	17
6	Number of Manholes in the Project Area with Different Diameter	20
7	Lift manholes	20
8	Process design	43
	Annexures	
1	List of Flats in the project area	70
2	Design using SWMM Software - Output	71
	Estimate	
	Data	
	Drawings	

## **EXECUTIVE SUMMARY**

Kerala Water Authority is a public sector undertaking under the Government of Kerala formulated to plan, execute, operate and maintained water supply and sewerage schemes in Kerala.

Government of Kerala (GoK) has launched the “Rebuild Kerala Initiative (RKI)” for infrastructure development in towns is given utmost importance considering the increasing pollution of water bodies due to lack of proper disposal of sewage. Also Honorable National Green Tribunal (NGT) have given directions to implement sewerage system for various cities of Kerala to control pollution of major water bodies.

After that as per the direction of KWA, a comprehensive sewerage plan has been developed in the year 2020 for Pathanamthitta district. As a pilot project two local urban bodies (ULBs) of Pathanamthitta district has been selected for implementation of sewerage scheme and the same is under preparation by Sewerage Circle Trivandrum.

It is quite evident that lack of a scientifically built sewerage system in the area causes poor sanitation, pollution of water bodies, unhygienic environment and much more difficulties as well as threats to the society. The septic tank, pit latrine and other means of existing practice is to be replaced with a better sanitation system for the houses in the area. A well- planned sewerage network is essential in the municipal town.

The extent of area covered is 5 square kilo meters having a population of 6600 (as per census 2011). The projected population including floating population in the year 2054 is 33000 and as the trend of population growth of Thiruvalla Municipality shows decreasing, the treatment facility for the present load can be used for the next 30 years also. Considering the per capita water usage as 150lpcd, UFW and non-domestic consumption, total water usage is calculated as 5.7 MLD. Taking 80% of water consumption as sewerage produced, the total sewerage load is arrived as 5 MLD. The project includes laying of sewerage network of 28621 m, pumping main of 5800 m. The domestic sewage is collected by gravity through various underground pipes of diameter 200 mm to 400mmHDPE PN10 and collected in 3 collection wells.

The total cost of project comes to Rs. 128.778 crores.

**ABSTRACT**

<b>THIRUVALLA MUNICIPALITY- SEWERAGE PLAN</b>	
Project Details	Construction of 5 mld STP, underground sewerage network and allied components in Thiruvalla Municipality
LSGI Covered under the scheme	Thiruvalla Municipality
Cost of sewer network	57.4 crores
Cost of STP	15.34 crores
O&M	Rs: 18.78 crores
Compound wall	0.25 crores
GST at 18 %	16.52 crores
Total including GST	108.29 crores
Centage @ 10 %	10.83
DPR Preparation charge @2.5%	2.7
Land cost	6 crores
Unforeseen	Rs 0.958 crores
Grand total including GST	Rs 128.778 crores

**PROJECT AT A GLANCE**

<b>THIRUVALLA MUNICIPALITY- SEWERAGE PLAN AT A GLANCE</b>		
Project Details	Construction of 5 mld STP, underground sewerage network and allied components in Thiruvalla Municipality	
LSGI Covered under the scheme	Thiruvalla Municipality	
Total Scheme Area	5	Sq.km
Total Population ( Year 2011)	6600	Nos
Floating & Seasonal population (2011)	20303	
Expected Population (Year 2054)	8096	Nos
Floating & Seasonal population (2054)	24904	Nos
Total Population including Seasonal population(Year 2054)	33000	Nos
Design Period	30	years
Number of Zones	1	No
Number of Collection Wells	3	Nos
Total sewage Load to STP	5	MLD
Total Length of Network Pipe (including pumping main)	28621	m
Length of Pumping Main	5800	m
<b>THIRUVALLA MUNICIPALITY- FSSM AT A GLANCE</b>		
Total Population ( Year 2011)	46233	
Expected Population (Year 2054)	56711	
Floating & Seasonal population (2054)	9289	
Total Population including Seasonal population of FSSM Area (Year 2054)	66000	
Total Septage Load to STP (Off Season)	40	KLD
<b>Total Cost of Project</b>	Rs 128.778 crores	

## **CHAPTER-1**

### **THIRUVALLA MUNICIPALITY PROFILE**

#### **1.1 INTRODUCTION**

As per the direction of KWA, a sewerage plan for two local bodies has been developed in the year 2021 for Pathanamthitta district. Necessary preliminary investigation on the pre-feasibility of implementing sewerage scheme to cover the Thiruvalla Municipality has been carried out by the PPD, Pathanamthitta district camp team of KWA in Pathanamthitta, under the guidance of Sewerage Circle Office at Thiruvananthapuram. It has been decided to establish a scientifically planned sewerage scheme including comprehensive collection and conveyance system coupled with modern treatment plant and method of disposal for the waste water generated in the town so as to protect and conserve the serene ecology and environment of the project area and also to ensure safe and unpolluted drinking water to the people residing and pilgrims visiting here. The proposed sewerage scheme shall cover the entire Thiruvalla municipality area. Suitable location for the STP is identified considering the terrain, population density and envisaged master plan of the local body.

Based on the 2011 census population (52833) of the local body, a design period of 30 year is considered from the base year of 2024, expected population and quantity of sewage up to the ultimate year of 2054 are arrived. A piped network of sewerage system is proposed at the town area and at highly populated pockets whereas septage provision proposed at other area. The capital investment required for the project intended to be shared by SBM 2.0 and other stakeholders.

#### **1.2 City Profile**

#### **1.2 THIRUVALLA MUNICIPALITY PROFILE**

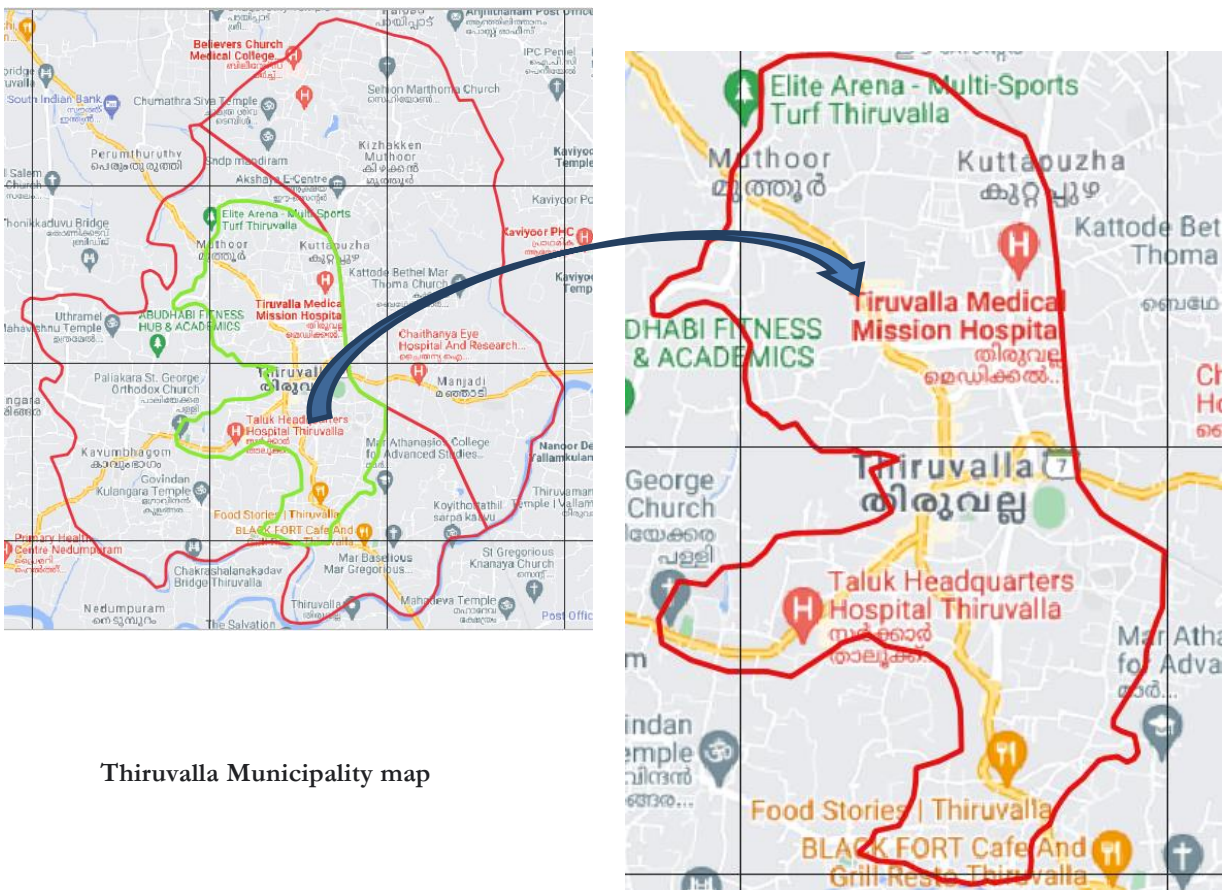
The Municipality is having an area of about 25.8 km<sup>2</sup>. Thiruvalla town is located in Thiruvalla Taluk of Pathanamthitta district. It lies between 90 21' 30" N and 90 25' 30" N latitudes and 760 32' 30" E and 760 36' 30" E longitudes. It is surrounded by Payipad Grama Panchayat in the north, Kuttoor Grama Panchayat in the south, and Kaviyur, Kunnamthanam and Eraviperoor Grama Panchayat in the east and Peringara and Nedumpuram Grama Panchayats in the West. This town is an important urban node along the Main Central Road (SH 1). It is located at a distance of 9km from Changanassery, 26km from Kottayam, 99km from Ernakulam, 9km from Chengannur, 30 km from Kayankulam, 30 km from



Pathanamthitta and 125 km from Thiruvananthapuram. Thiruvalla is well connected to other important places through road and rail networks. Thiruvalla railway station is the only one railway station in the District. Changanassery and Chengannur are the nearest railway stations with in 10 km. This municipality is one of the major urban nodes along MC road and was formed as early as in 1920 AD. The nearest municipalities are Chengannur and Changanassery which lie about 10kms away from Thiruvalla.

### **1.2. 1. Topography**

The topography of the area is more or less plain, the slope varying from 0 to 15%. Nearly 92% of the municipal area is within 6% slope. This shows that the area is ideal for residential and other urban development activities. Thiruvalla Municipality is located in Thiruvalla Taluk of Pathanamthitta district. It lies between 90 21' 30" N and 90 25' 30" N latitudes and 760 32' 30" E and 760 36' 30" E longitudes. It is surrounded by Payipad Grama Panchayat in the north, Kuttoor Grama Panchayat in the south, and Kaviyur, Kunnamthanam and Eraviperoor Grama Panchayat in the east and Peringara and Nedumpuram Grama Panchayats in the West. This town is an important urban node along the Main Central Road (SH 1). It is located at a distance of 9km from Changanassery, 26km from Kottayam, 99km from Ernakulam, 9km from Chengannur, 30 km from Kayankulam, 30 km from Pathanamthitta and 125 km from Thiruvananthapuram. Thiruvalla is well connected to other important places through road and rail networks. Thiruvalla railway station is the only one railway station in the District. Changanassery and Chengannur are the nearest railway stations with in 10 km. This municipality is one of the major urban nodes along MC road and was formed as early as in 1920 AD. The nearest municipalities are Chengannur and Changanassery which lie about 10 kms away from Thiruvalla.



Thiruvalla Municipality map

Project Area

Fig-1 – 1 Location Map

### 1.2.2 Geological condition.

The topography of the area is more or less plain, the slope varying from 0 to 15%. Nearly 92% of the municipal area is within 6% slope. This shows that the area is ideal for residential and other urban development activities. The geography of this town is of special nature. Thiruvalla municipality is bounded by Manimala River on South, Kaviyoorpuncha and Vayatadu - Nattukkadavuthodu on North East and Payippadu - Muthoottuvelilpuncha on North West. Thus, the municipal area has physical barriers almost all around, preventing continuous physical development towards the outer areas of municipal boundaries.

The town has a tropical climate with a high temperature of nearly 35°C in summer and 18°C in winter with a heavy rainfall of around 305cm.

### **1.2.3. Water Resources**

#### **1.2.3.1 Surface Source.**

Manimala River is the major river flowing through the district. The source of water supply to Thiruvalla Municipality is Manimala River.

#### **1.2.3.2 Ground Water Potential.**

The seepage from the rivers and accumulation of ground water owing to heavy rains make the district relatively rich in groundwater sources. But the ground water in the low land areas is not suitable for drinking purposes due to salinity.

#### **1.2.4. Climate and Rainfall.**

The district has a tropical humid climate. Four seasonal variations are experienced in the district viz. the south west monsoon season from June to September; North east monsoon season from October to December, a cool and pleasant climate during January and February and summer season.

#### **1.2.5. Demography.**

Thiruvalla Municipality is located in Thiruvalla Taluk of Pathanamthitta district. It lies between 90 21' 30" N and 90 25' 30" N latitudes and 760 32' 30" E and 760 36' 30" E longitudes. It is surrounded by Payipad Grama Panchayat in the north, Kuttoor Grama Panchayat in the south, and Kaviyur, Kunnamthanam and Eraviperoor Grama Panchayat in the east and Peringara and Nedumpuram Grama Panchayats in the West. This town is an important urban node along the Main Central Road (SH 1). It is located at a distance of 9km from Changanassery, 26km from Kottayam, 99km from Ernakulam, 9km from Chengannur, 30 km from Kayankulam, 30 km from Pathanamthitta and 125 km from Thiruvananthapuram. Thiruvalla is well connected to other important places through road and rail networks. Thiruvalla railway station is the only one railway station in the District. Changanassery and Chengannur are the nearest railway stations within 10 km. This municipality is one of the major urban nodes along MC road and was formed as early as in 1920 AD. The nearest municipalities are Chengannur and Changanassery which lie about 10 kms away from Thiruvalla.

### **1.2.6 Emerging Issues and Concerns.**

Even though the natural growth rate of population does not show an exorbitant increase, the floating population in Thiruvalla is to be considered while earmarking the infrastructural requirements. It is quite evident that lack of a scientifically built sewerage system in the area causes poor sanitation, pollution of water bodies, unhygienic environment and much more difficulties as well as threats to the society. The septic tank, pit latrine and other means of existing practice is to be replaced with a better sanitation system for the houses in the area. A well-planned sewerage network is essential in the municipal town. It must be noted that the daily commutation adds to the increased number of floating population in the core city. A transportation study conducted has shown that nearly 65000nos of people commute to the core city daily thereby increasing the pressure on civic amenities.

### **1.2.7. Literacy.**

The literacy rate of Thiruvalla municipality is 97.21%, with male literacy rate of 98.03% and female literacy rate of 96.38%.The Municipality has high literacy rate and educational standards are high too. The sex wise education status of the population in the categories of most vulnerable (MV), just above vulnerable (JV), urban poor (UP), low income group (LIG), middle income group (MIG) and high income group (HIG). The educational status of the constituent areas was evaluated based on a sample survey. There is only negligible percentage of the population who are illiterate. About 2 % of the populations even in the most vulnerable group are graduates.

### **1.2.8 Future Population.**

The state registered an average density of 860 persons per sq.km as per 2011 census. The percentage of decadal growth rate of the state population during 2001-2011 was 4.91 %. The population of Pathanamthitta district as per 2011 census is 1,197,412. The increase of population during 2001-2011 is at the rate of -2.97% against the state growth rate of 4.91%.The decadal growth rate of population is negative and less in Thiruvalla Municipality compared to other municipalities in the district. Also the percentage of senior citizen is considerably more compared with total population rate.

### **1.2.9 Economic Base.**

Tertiary sector is the economic base of the town. There are only a few large scale industries functioning in the municipal area. The Municipality has not achieved much progress in the Industrial sector though there is the presence of large industry like Traco Cables. In the private sector some Small Scale industrial units are functioning. The economic activities and the

population growth exert pressure on the available infrastructural facilities like water supply, sewerage, solid waste management etc. Approximately 34.3% of the population is the work force of the city.

The land use shows that the major portion is utilized for residential purpose (45.45%) followed by public and semi-public purpose (16.39%) wet agriculture (13.10%) and dry agriculture (11.45%) respectively. The residential area is mainly concentrated in south-west portion of the Municipality, whereas the dry agriculture area is along the fringe of the south east part and in the north east quarter of the municipality. These areas are part of the erstwhile Kuttappuzha Panchayat. It can also be seen that the commercial use is concentrated along the major transportation corridors. The land under residential use is 22hectare/ 1000 population, which is the highest. The total average size of availability of land per 1000 persons as per 2001 census is 49 hectares.

Nearly 24% of the area of the municipality is under agriculture use, out of which nearly 13% is paddy/ wetland area. Paddy fields are seen scattered in the entire area of the town. It is seen that even though Thiruvalla is a first order settlement of the district, agriculture still retains its share. There is a higher concentration of public and semi-public land use (nearly 16%) than the nearby municipalities. Public and Semi-Public area is distributed throughout the entire municipal area and is at a higher level than the nearby urban centers. Commercial land use is 0.97%, which is seen concentrated in the centre of the town. Municipal area is bounded by Paddy field, Thodu or River. Predominantly the functional character of the town is urban.

#### **1.2.10 Industries.**

The Industries of a region play a key role in the economy of that area even though it is not very much manifested in Kerala. This sector generates considerable employment opportunities and controls the lifestyle of people in that region. The number of workers engaged in the industrial sector influence the urbanization of the area. The analysis of industrial sector shows that the major industries are showing a declining trend. However, the industries based on building materials, textiles, automobiles etc have potential. The ‘weaver’s guild’ which was established years back imparts training for weaving and cross stitch. The bed sheets known as Thukalassery sheets were very famous. The hands cross stitched clothes were even exported in early days. These are still functioning but are for namesake. These units are to be revived with necessary modernization. There are only a few large scale industries functioning in the municipal area. The ‘Traco Cable Factory’ in the public sector which produces electric cables is the only large industry in the Municipality.

## **CHAPTER-2**

### **PROJECT DEFINITION, CONCEPT AND SCOPE**

#### **2.1 Scope of the work**

Considering the per capita water usage as 150lpcd, UFW and non-domestic consumption, total water usage is calculated as 5.7 MLD. Taking 80% of water consumption as sewerage produced, the total sewerage load is arrived as 5 MLD. The project includes laying of sewerage network of 28621 m, pumping main of 5800 m and construction of 3 Nos of collection wells. The domestic sewage is collected by gravity through various underground pipes of diameter 200mm to 400mm HDPE PN10 and collected in 3 collection wells.

On completion of the proposed work approximately 1000 numbers of sewer connections to the households and more than 10 numbers to multistoried apartments can be provided and thereby revenue in terms of centage of water charge can be realized. The one time connection charge will also boost the revenue of KWA.

The sewer network proposed will improve

- Improve the quality of life
- Improvement in the unhygienic condition and safety to health
- Economic gains as the investment in sewerage system will be less compared to the cost of maintaining separate household sanitation system for each household and the gains resulting from improved health, less illness and more workdays will be significantly high.
- Improvement in environment by arresting pollution in the air and ground water and the reduction in nutrient level in the surrounding water bodies.

#### **2.2 Land**

The proposed proposal is to lay sewerage network lines through roads and to collect the sewage in collection wells. In roads, at an interval of 30m, man holes are proposed to avoid choking of sewer lines and to perform maintenance work. The sewage from an area is carried through pipes under gravity to collect in collection wells. In this project three collection wells are included at Thukalassery, Chanthakkadavu & Kattoorkkara.

#### **2.3 Collection and Conveyance System**

##### **2.3.1 Sewer Network**

The proposed sewerage project for the service area comprises of collection, transmission and treatment of sewage and disposal. Engineering decisions are required to specify the area and population to be served, the design period, the per capita sewage flow, ground water infiltration, unauthorized roof water connection, nature and location of the treatment facilities and the

method of disposal / utilization of the effluent. The type, quality and quantity of the materials for construction are also to be looked into. This project is prepared with adequate details for timely and proper implementation of the project.

### **2.3.2 Population Forecasting**

Demographic forecasting is an important topic: population, household and related forecasts form the basis of social and economic planning and are fundamental to many other forecasting exercises. The many uses of population forecasts give rise to choices on several dimensions. Population forecasting is also highly uncertain. During the twentieth century, fertility was the most important component in determining population size. However, forecasting fertility proved to be difficult in the post-World War II era: neither the “baby booms” of the 1950s nor “baby busts” of the 1970s were foreseen. Neither was the post-war rapid decline in mortality foreseen. Both mortality and migration forecasting were naïve: for decades, official population forecasts widely assumed that mortality would not improve, at least beyond the immediate future, and migration was treated as an uninteresting constant. Water supply projects and sewerage projects are designed for 30 years. After 30 years the system needs renovation or to make a new system to accommodate load at that time.

There are several methods developed for forecasting population but none of them are perfect. The population growth may change based on several factors such as attitude of community, social status, onset of pandemic diseases, war etc. which are unpredictable. Detailed population forecasting is shown in Annexure-1.

Table -1Population Forecasting

Population of Thiruvalla Municipality		
As per census 2011 Population		6600
Population Projected to year	2054	8096
Floating Population (21%)		24904
Total population to Year	2054	33000

### **2.3.3 Design Period**

Sewerage projects under normal circumstances are designed for a period of 30years.The projected population including floating population in the year 2054 is 33000 and as the trend of population growth of Thiruvalla Municipality shows decreasing, state average growth from the present load can be used for the next 30 years.

Considering immediate implementation this project is designed for the population in 2054 taking the base period as 2011.

### 2.3.4 Estimation of Sanitary Sewage

Sanitary sewers are provided to carry the spent water of the community with some ground water and fraction of storm run-off, to the point of treatment and disposal.

The factors which affect the quality of sewage are

1. Per capita Sewage flow
2. Peak factor
3. Ground water infiltration
4. Unauthorized roof water connection.

#### 2.3.4.1 Per capita Sewage flow:

The entire spent water of the community contributes to the total flow in a sanitary sewer. Since some water is lost due to evaporation and seepage, only 80% of the average water supply is taken as sewage flow.

Table No.2 Sewerage Generation from Project Area

Water Consumption @150lpcd		57.29	LPS
Add 15% for UFW and Non-Domestic		8.59	LPS
Total Consumption in the year	2021	65.88	LPS
Sewerage generated (@80% of Water Consumption)		52.70	LPS
Which is 5 MLD			

#### 2.3.4.2 Peak Factor

There may be hourly variations in flow and also seasonal variations. The peak factor or ratio of maximum to average flow depends on the contributory population. Evidently the peak factor trends to reduce with increase in population, since the different habits and customs of several group of people in large population, trend to reduce the variations in demand pattern. The recommended values as per CPHEEO manual are as follows.

Table -3 Peak Factor Values

Sl.No.	Population	Peak Factor
1	Upto 20,000	3.00
2	20,000 to 50,000	2.50
3	50,000 to 7,50,000	2.25
4	Above 7,50,000	2.00

#### 2.3.4.3 Ground water infiltration:

The flow in the sanitary sewers may include certain flows due to infiltration of ground water



through joints. The suggested value for ground water infiltration for sewers laid below ground water table is as follows.

Table -4 Ground Water Infiltration

Norm	Minimum	Maximum
Litres/hectare/day	5000	50000
Litres/kilometer of sewer/day	500	5000
Liters/day/manhole	250	500

Infiltration in litres/ Ha / day - 5000 to 50000. A value of 5000 litres/ha/day is adopted for design as per CPHEEO manual in the tool kit. However, a higher infiltration rate is expecting due to the higher ground water table and nearness to backwaters.

#### **2.3.4.4 Unauthorized roof water connection**

The flow in the sanitary sewers may include certain flows due to unauthorized roof water connections from the households. Whereas the CPHEEO is of opinion that with strict rules and regulations this should be banned. Hence this flow is taken as zero hence the flow through the sewer is calculated as follows.

Table -5 Peak Flow Calculation

1	Peak Flow	PF x DWF + GW Infiltration
2	Average Flow	2 DWF + GW Infiltration
3	Minimum Flow	DWF + GW Infiltration

#### **2.3.4.5 Hydraulics of sewer.**

A properly functioning sewer has to carry the peak flow for which it is designed and transport suspended solids in such a manner that the deposits in a sewer are the minimum. Open channel flow or gravity flow is assumed in the collection sewer lines and closed conduit flow or pressure flow is assumed in pumping mains.

The various factors which are to be considered in the design of gravity sewer lines are

1. Selection of pipes
2. Depth of flow
3. Velocity of flow
4. Minimum and Maximum cover

#### **2.3.4.6 Selection of Pipes**

In the selection of pipes, the various aspects such as the life, the suitability of the pipe as a sewage carrier its resistance to corrosion against the soil in which it is laid, availability, economy, easiness for installation and maintenance are considered. The following pipes are generally used for gravity sewers.

- ❖ Stone ware or vitrified clay pipes
- ❖ R.C.C. Pipes
- ❖ A.C. Pipes
- ❖ PVC /UPVC Pipes
- ❖ HDPE Pipes
- ❖ GRP Pipes.

Major portion of the area contains soil of the type clay mixed with sand. Hence, HDPE PN 10 pipes are proposed for the sewer lines from diameters 200mm to 400mm. The minimum size of pipes used for sanitary sewers is 200mm. These pipes can be easily joined using solvent cement and available in length of 6.00 m. The pipe is smooth with low coefficient of friction so that higher velocity can be obtained in pipelines which prevent the silting up of the pipe line.

#### **2.3.4.7 Depth of flow:**

From the consideration of ventilation in waste water flow, the sewers are not allowed to run full. All the sewers are designed in such a way that the maximum depth of flow at ultimate peak flow is limited to 0.80 diameters. Whenever the depth of flow exceeds 0.80 D, either the diameter or the slope of the pipe is changed to adjust the depth of flow.

#### **2.3.4.8 Velocity of flow:**

The velocity of flow in the sewers lines are to be adjusted in such a way that there is minimum deposition in the line and no scouring occurs in the line. A minimum velocity of 0.6 m/s and maximum velocity of 2.00 m/s is adopted for design. The slopes of the pipes lines are adjusted to get the minimum / maximum velocity. In the Thiruvalla municipality and surrounding areas alluvial soils are found in major portions. The water table is also high. So trenching in this area will be difficult. Hence in order to limit the depth of cutting, the slopes in the 200mm pipes are adjusted in such a way that as far as possible the velocity in the line gets minimum self-cleaning velocity. But in certain initial stretches, the velocity is less than 0.6m/sec, to avoid silting in the upper reaches due to less flow, flushing will be necessary and has to be provided periodically.

#### **2.3.4.9 Minimum and maximum cover**

The minimum earth cover over the pipe line shall be 1.00 m. Due to the difficulty in trenching in the water logged area, the maximum depth of cutting is restricted to 4.50m, with few exemptions, where the depth of cutting slightly exceeds above 4.50m.

The gravity sewers all designed for the peak flow. Manning's formulae for open channel flow is used for the design of gravity sewers. The coefficient of roughness "n" used in the Manning's formulae is as follows:

- ❖ Stoneware pipes = 0.015
- ❖ PVC pipes = 0.011
- ❖ R.C. C. Pipes = 0.015
- ❖ PE Pipes = 0.011

#### **2.3.4.10 Laying Sewerage lines through Roads**

The project aims to lay sewerage lines through various roads in Thiruvalla municipality is to collect sewage in collection wells and then to pump it to the proposed STP at Kattoorkkara for further treatment. The proposed collection wells are located at

##### **Collection well 1 -Thukalassery**

This collection well is designed for 30 LPS and the sewage load from the well is pumped to the proposed STP at Kattoorkkara through 200,250 mm DI pipe for a distance of 3525 m.

##### **Collection well 2 Kattoorkkara near to STP Well area**

This collection well is designed for 15 LPS and the sewage load from the well is pumped to the proposed STP at Kattoorkkara through 200 mm DI pipe for a distance of 813 m.

##### **Collection well 3 Chanthakkadavu**

This collection well is designed for 10 LPS and the sewage load from the well is pumped to the proposed STP at Kattoorkkara through 150 mm DI pipe for a distance of 1462 m.

#### **2.4 Sewer Appurtenance – Manholes**

Sewer appurtenances are devices necessary in addition to pipes and conduits, for the proper functioning of the sanitary sewers. These include ordinary manholes, Junction manholes, drop manholes, siphon's etc.

Man holes are provided at every 30m intervals to facilitate manual cleaning. For higher diameter pipes, in straight lengths, the interval has been increased up to 90 m maximum. Manholes are also provided at every change of alignment, gradient and diameter. Junction man holes are proposed at junctions where two or more lines meet.

Circular man holes are proposed in all the cases. An Internal diameter of 1200mm is proposed for man holes for 200 mm dia pipes, 1500 mm for 250 mm dia pipes a, 1890 mm for 315 mm dia pipes and 2400 mm for 400mm dia pipes as per CPHEEO standards. Inverted siphons are proposed at places, where the sewer lines have to cross obstructions like railway lines, water bodies etc. Number of manholes proposed in this project are as follows.

Table No.6 No. of Manholes in the Project area with different Diameter

Diameter of manholes	1.2m Dia	1.5m Dia	1.89m Dia	2.4m Dia
No. of manholes	1279	26	3	29

## **2.5 Sewage Pumping Stations - Collection well and pump house**

The pump houses proposed are located in vacant lands, but to minimize extend of land to be acquired and it is proposed to provide submerged wet well pumps and circular pump houses. Normally detention period upto 2 hrs is allowed for the sewage in the collection well, before being pumped into the Treatment plant. Three numbers pump sets with 100% standby are to be housed in each pump house to meet DWF, 2DWF and 3DWF. There are 3new Pump Houses in this proposal, at Thukalassery, Chanthakkadavu and Kattoorkkaranear to STP well.

## **2.6 Lift Manholes**

At many locations which cannot naturally (with gravity flow) contribute to gravity sewers will be connected with lift manholes. These lift manholes will pump to the nearest gravity manholes.

LIFT MAN HOLES		
Nos of lift manholes	11	Nos
No of pumps per lift manholes	22	Nos
Total no of pumps required	22	Nos

## **CHAPTER 3**

### **PROJECT COST(NETWORK)**

#### **3.1 Land Development.**

If land is not acquiring by the Municipal authorities, approximately Rs.3 lakhs/cent is to be included in the estimate. So a lump sum amount of Rs.6 crores is provided in the cost estimate.

#### **3.2 Physical Infrastructure.**

##### **3.2.1 Sewage Pumping mains**

Total length of 5800m of DI pipes are proposed for the pumping mains and total cost of this component including labour charges comes to Rs. 2,14,85,237 as per DSR 2018 rates. Detailed break up of estimate is appended.

##### **3.2.2 Installation of pump sets.**

The total pump set capacity required for the 3pumping stations as per the economic size design for intermediate demand is 25 and 5 HP pumps. All the pump sets are submersible non-clogging type. The cost is worked out as Rs.19.4 lakhs including 100% standby. Detailed estimate appended.

##### **3.2.3 Collection Well cum Pump Houses.**

There are 3 Nos. of wells of which 2 nos are to be constructed in the premises of Chanthakkadavu & Kattoorkkara with diameters 5 m and 5m depth. The third well is to be constructed at Thukalassery with diameter 7m and depth 9m. Provision for pump lifting equipment are included in the estimate. The total cost is Rs. 3,93,80,700. Provision for compound wall amounting to Rs 0.25 lakhs is also included in the estimate. Detailed estimate enclosed.

##### **3.2.4 Sewer Network& RCC Manholes**

The total length of sewer network as per the detailed design is 28621m of varying sizes. The hydraulic design for the network is enclosed. The total length of 200mm HDPE PN 10 pipe - 27594 m, 250 mm HDPE PN 10 pipe- 512m, 315mm HDPE PN 10 pipe-55m & 400 mm HDPE PN 10 pipe-460mare proposed in the project. Total numbers of1279 of 1200mm diameter for 200 mm dia pipes, 26Nos manholes of 1500mm diameter for 250 mm dia pipes,3Nos. of 1800mm for 315 mm dia pipes&29 Nos of 2250 mm for 400 mm dia pipes are proposed.

The total cost is Rs. 33,34,80,168 including embedding charges of HDPEPN10 pipes an, cost of pipes and RCC Man Holes as per DSR 2018 rates.

##### **3.2.5 Road restoration Charges**

The cost is estimated based on the standard rate for road restoration charges to be remitted to various departments. The total cost is estimated as Rs.17,04,02,000.

### **3.2.6 Power Allocation and Other Allied Works.**

Provision for power connection to the proposed two collections well cum pumping stations, power backup (DG Sets), Aeration blowers and allied works are included in the estimate. The estimated cost is Rs.23 Lakhs.

### **3.3 Cost of Shifting Utilities**

The proposed area being the heart of city, the utilities such as communication cables, water supply Pipe line, Electricity cables, etc. are to be shifted for laying the sewer lines. Hence provision has been included in the estimate for the same.

### **3.3 Operation & Maintenance cost.**

Annual O&M cost for STP including centage and GST worth Rs. 10,97,50,746/- (Ten cores ninety-seven Lakhs fifty thousand seven hundred and forty-six rupees only) and for sewer network and allied works Rs.13,07,14,997/- (thirteen crore seven lakh fourteen thousand nine hundred and ninety seven rupees Only).

### **3.4 Unforeseen**

An amount of Rs.0.958 crores is included in the estimate.

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## **CHAPTER-4**

### **DESIGN of SEWERAGE SYSTEM COMPONENTS**

The components of the sewerage system have to be designed for economy, functioning to the expected level etc. The main components of the project are listed below.

1. Sewerage Network – For collecting sewerage from user end and to transport it to the main trunk and finally to collection wells.
2. Man Holes – It is required to provide man holes in the sewer line at an interval of 30m to make clear the lines if clogging or choking occurs. Flushing can also be done in man holes.
3. Collection wells – These wells collect sewerage from network and from there is pumped to the STP. It also serves as storage tank in the case of minimum flow condition to avoid frequent starting and stopping of pump sets.
4. Pumping mains – The pumping main carries sewerage from collection well to STP under pressure.
5. Pump sets – These are used to create a driving force to transport sewerage from collection well to STP with the aid of power.

#### **4.1 Design of Sewerage Network**

In the project area the main roads are identified and ground levels have been extracted from available water supply data. The junction points and control points were cross-checked with field survey data with DGPS equipment as the water supply details taken years back. Social survey was done to ascertain the living conditions and amenities provided in the house holds. Reconnaissance survey was also carried out to assess the nature of buildings such as offices, institutions such as schools, colleges, hospitals, lodges, etc. The selected area consists of so many flats counting to almost 10No's having dwelling units. The details of flats are given in Annexure-2.

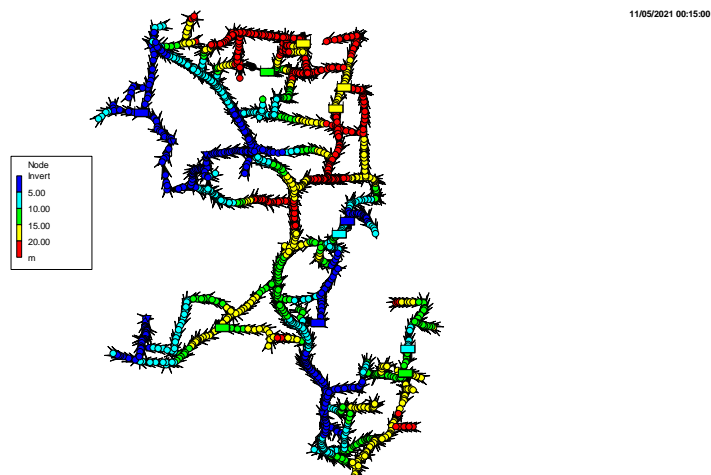
The software EPASWMM was used to design the network owing to the fineness in the results. The EPA Storm Water Management Model (SWMM) is a dynamic rainfall-runoff simulation model used for single event or long-term (continuous) simulation of runoff quantity and quality from primarily urban areas. The runoff component of SWMM operates on a collection of subcatchment areas that receive precipitation and generate runoff and pollutant

loads. The routing portion of SWMM transports this runoff through a system of pipes, channels, storage/treatment devices, pumps, and regulators. SWMM tracks the quantity and quality of runoff generated within each sub catchment, and the flow rate, flow depth, and quality of water in each pipe and channel during a simulation period comprised of multiple time steps. As the sewerage network system is designed by considering it as open channel flow, this software is the most apt for the design of sewer network. Moreover, we can visualize the output in a three dimensional platform and hence it can be refined to least error.

The manholes are first plotted in the scaled, geo referenced, AutoCAD base map. Using this AutoCAD base map prepared, a windows metafile format used as back drop in the EPASWMM window. The nodes representing manholes and links representing the conduits are plotted for developing the model in the EPASWMM software, consequently entered the parameters regarding the nodes and links. Based on the population scattered in the area especially taking into consideration the point load from various flats located in the selected zone, the sewage load is assessed in each manhole and fed as dry weather flow in the model. The peak factor considered is 2.5. Flow routing is done correcting the invert levels of manholes by trial and error to the proposed outfalls. By several trials it was refined to successfully run with least error. The detailed output of EPASWMM for five zones are attached in Annexure-3.

200mm HDPE PN 10 pipes are selected for the network for smooth functioning with little maintenance. The inverted level of manholes has been selected by providing the required slope for the movement of sewage with gravity. The EPASWMM model of Thiruvalla Municipality is as follows.

#### **4.2 SEWERAGE NETWORK LAYOUT**





### **4.3 Pumping Main**

In the project there are 3 Nos of collection wells proposed at Thukalassery, Chandakkadavu & Kattoorkkara. The pumping main is designed to carry sewerage from these wells to STP

EPANET software is used to design pumping mains. In this software, minor losses and major losses are taken into account. The software is capable of modeling system.

#### **Well at Thukalassery to STP**

Length of Pumping main = 3525m.

Flow = 30 LPS

Assuming a velocity of 1m/s,

200/250mmdiaDI pipe is to be used.

Hence DI Pipe for a length of 3525m is proposed as pumping main.

#### **Well at Chandakkadavu to STP**

Length of Pumping main = 1462 m.

Flow = 10 LPS

Assuming a velocity of 1m/s,

200mmdiaDI pipe is to be used.

Hence DI Pipe for a length of 1462m is proposed as pumping main.

#### **Well at Kattoorkkara to STP**

Length of Pumping main = 813m.

Flow = 15 LPS

Assuming a velocity of 1m/s,

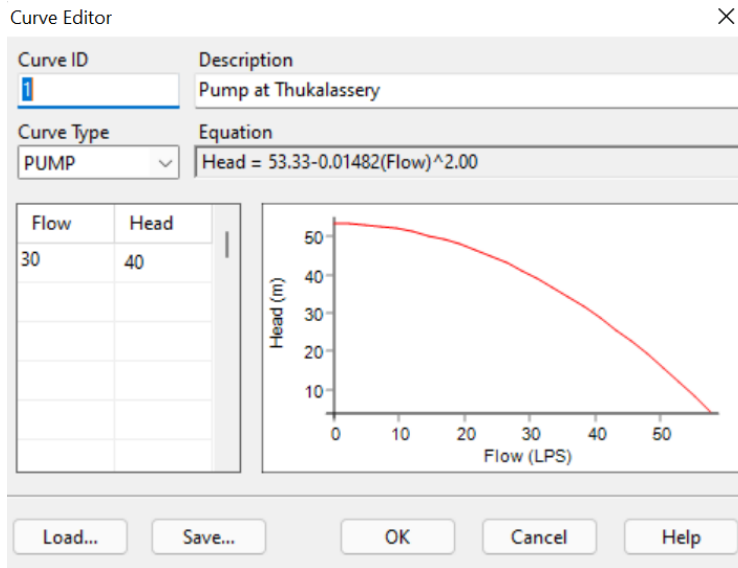
200mm ID pipe is to be used.

Hence DI Pipe for a length of 813m proposed as pumping main.

#### 4.4 Pump Sets

Submersible Pump sets are proposed in this project due to simplicity of operation and absence of suction head.

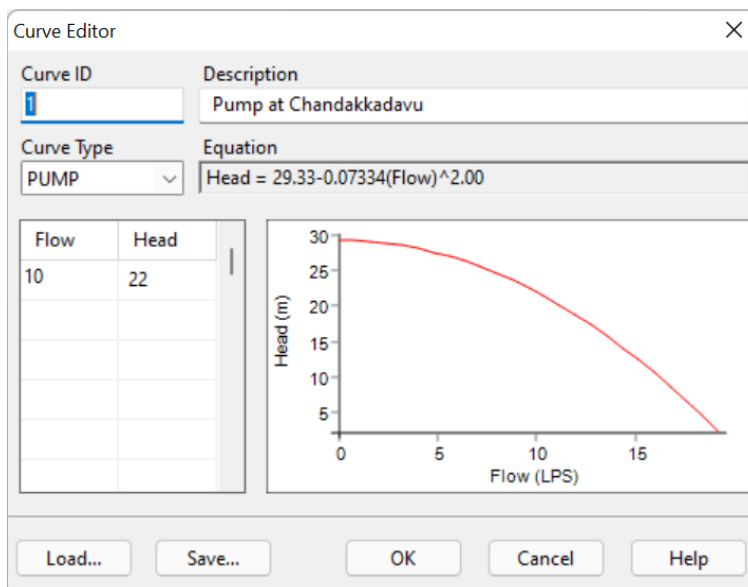
##### (a) For Thukalassery to STP



$$\text{Efficiency} = (\text{LPS} * \text{Head}) / (\text{Efficiency} * 75) = (30 * 40) / (0.70 * 75) = 22.85 \text{ HP}$$

**Say 23 HP**

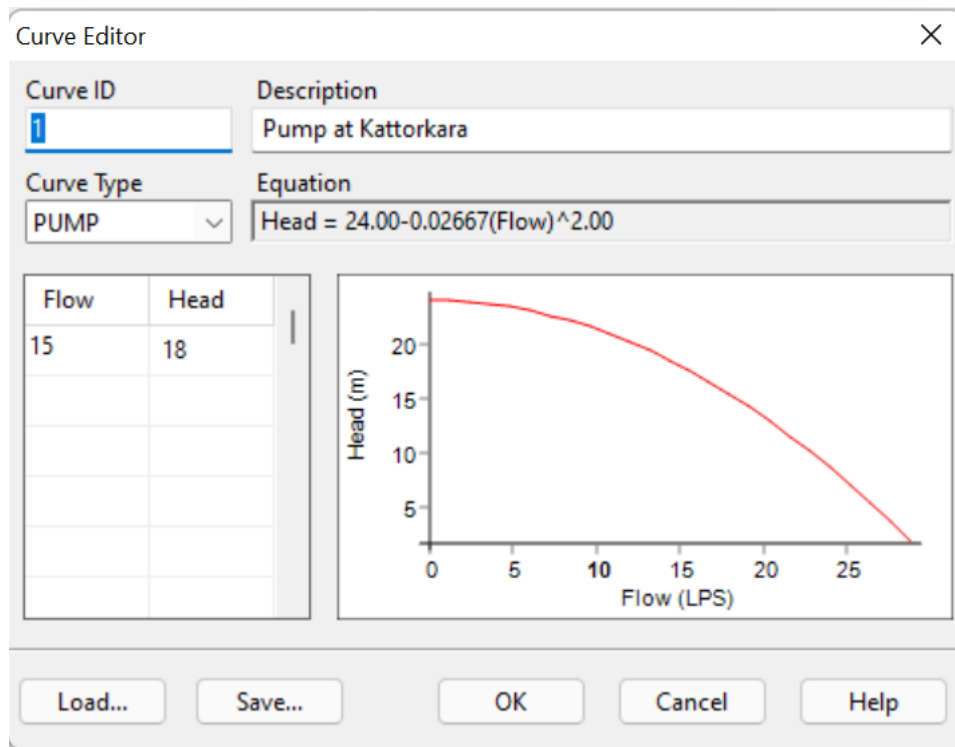
##### (b) Well at Chandakkadavu to STP



$$\text{Efficiency} = (\text{LPS} * \text{Head}) / (\text{Efficiency} * 75) = (10 * 22) / (0.70 * 75) = 4.19 \text{ HP}$$

**Say 4.5 HP**

(c) Well at Kattoorkkara to STP



$$\text{Efficiency} = (\text{LPS} * \text{Head}) / (\text{Efficiency} * 75) = (15 * 18) / (0.70 * 75) = 5.14 \text{ HP}$$

**Say 5.5 HP**

### 4.3 Design of Collection Wells

There are 3 collection wells in the existing Sewerage system.

To manage the peak flow, a detention period of 2 hours is taken in the proposed new wells. As the detention period is beyond the standard limit, provision for aeration is also included in the project.

New Collection wells proposed

#### 1-Thukalassery to STP

Total Load to this zone	- 30 LPS
Volume required for a storage of 2 hrs	- 216 m <sup>3</sup>
Area required	- 405m <sup>2</sup>
Diameter of well	- 7m
GL of well	- 3m
Clearance	- 0.5m
Depth of well	- 5.5m
Residual Head	- 3m
Depth of well from GL	-9m

#### 2-Kattookkaraa STP Premises

Total Load to this zone	- 15 LPS
Volume required for a storage of 2 hrs	- 108 m <sup>3</sup>
Area required	- 304 m <sup>2</sup>
Diameter of well	- 5m Say
GL of well	- -0.3m
Clearance	- 0.5m
Depth of well	- 6.5m
Residual Head	- 1m
Depth of well from GL	- 8m

#### 3-Chandakkadavu to STP

Total Load to this zone	- 10 LPS
Volume required for a storage of 2 hrs	- 72 m <sup>3</sup>
Area required	- 304m <sup>2</sup>
Diameter of well	- 4 m
GL of well	- 0.5m
Clearance	- 0.5m
Depth of well	- 6.5m
Residual Head	- 1m
Depth of well from GL	-8m

Both collection wells shall be provided with blower and aeration arrangements during storage.

## **CHAPTER 5 TECHNOLOGY FOR STP**

### **5.1 SEWAGE TREATMENT**

Sewage treatment is a type of wastewater treatment which aims to remove contaminants from sewage to produce an effluent that is suitable for discharge to the surrounding environment or an intended reuse application, thereby preventing water pollution from raw sewage discharges. Sewage contains wastewater from households and businesses and possibly pre-treated industrial wastewater. There is a high number of sewage treatment processes to choose from. These can range from decentralized systems (including on-site treatment systems) to large centralized systems involving a network of pipes and pump stations which convey the sewage to a treatment plant.

Sewage is typically transported through a sewer system. Sewage consists of wastewater discharged from residences and from commercial, institutional and public facilities that exist in the locality. Sub-types of sewage are greywater (from sinks, bathtubs, showers, dish washers, and clothes washers) and back water (the water used to flush toilets, combined with the human waste that it flushes away). Sewage also contains soaps and detergents. Food waste may be present from dishwashing. Sewage may contain micro-pollutants and pollutants from industrial wastewater. The main parameters in sewage that are measured to assess the sewage strength or quality as well as treatment options include: solids, indicators of organic matter, nitrogen, phosphorus, and indicators of fecal contamination. The following four types of pathogens from fecal matter are found in sewage: bacteria, viruses, protozoa, helminthes and their eggs. In order to quantify the organic matter, indirect methods are commonly used: mainly the Biochemical Oxygen Demand (BOD) and the Chemical Oxygen Demand (COD). Typical values for physical–chemical characteristics of raw sewage in developing countries have been published as follows: 180 g/person/d for total solids (1100 mg/L concentration), 50 g/person/d for BOD (300 mg/L), 100 g/person/d for COD (600 mg/L), 8 g/person/d for total nitrogen (45 mg/L), 4.5 g/person/d for ammonia-N (25 mg/L) and 1.0 g/person/d for total phosphorus (7 mg/L). Sewage can be treated close to where the sewage is created, which may be called a "decentralized" system or even an "on-site" system (on-site sewage facility, septic tanks, etc.). Alternatively, sewage can be collected and transported by a network of pipes and pump stations to a municipal treatment plant. This is called a "centralized" system. The procedure for removing contaminants from the wastewater basically from the household sewage is called sewage treatment. It has to undergo the chemical, physical and biological procedure to remove these contaminants and give out an environmentally safe treated effluent.

Choosing the most suitable treatment process is complicated and requires expert inputs, often in the form of feasibility studies. This is because the main important factors to be considered when evaluating and selecting sewage treatment processes are numerous: process applicability, applicable flow, acceptable flow variation, influent characteristics, inhibiting or refractory compounds, climatic aspects, process kinetics and reactor hydraulics, performance, treatment residuals, sludge processing, environmental constraints, chemical product requirements, energy requirements, requirements of other resources, personnel requirements, operating and maintenance requirements, ancillary processes, reliability, complexity, compatibility, area availability. With regards to environmental impacts the following aspects are included in the selection process: Odors, vector attraction, sludge transportation, sanitary risks, air contamination, soil and subsoil contamination, surface water pollution or groundwater contamination, devaluation of nearby areas, inconvenience to the nearby population.

The different stages of the treatment process involved for the treatment of sewage is shown in the flow diagram.

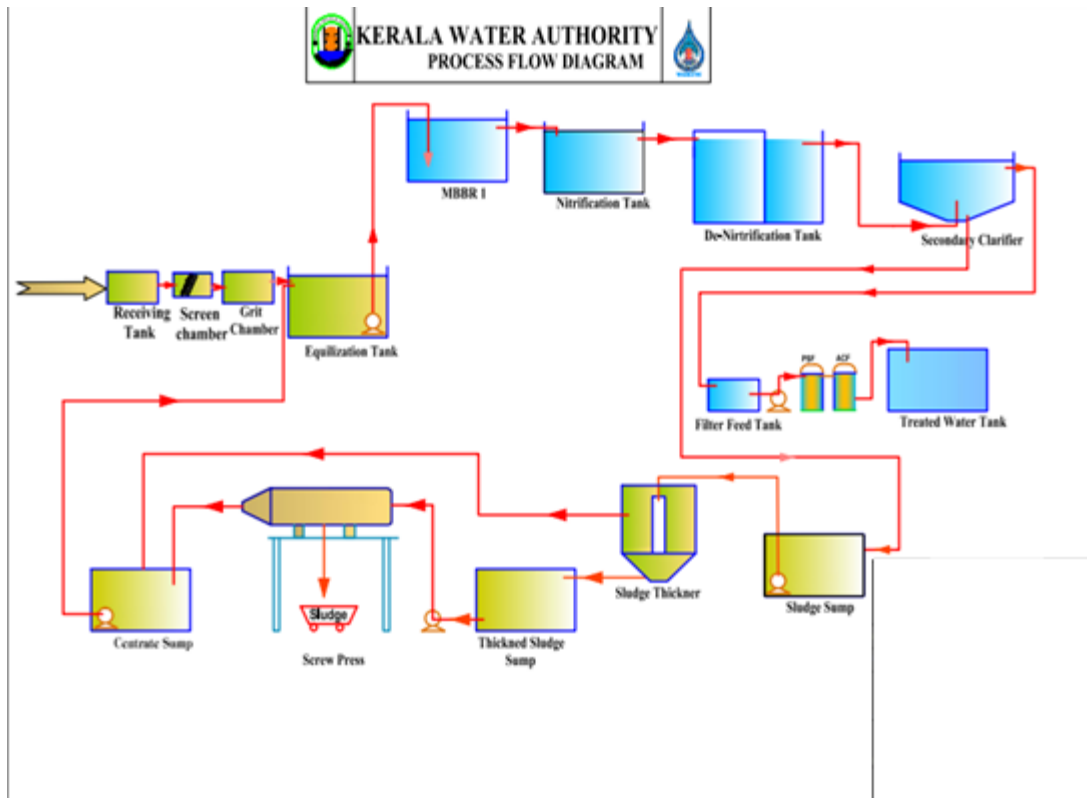


Figure- 5.1 Hydraulic Flow Diagram

## 5.2 TREATMENT UNITS

### 5.2.1 PRE-TREATMENT

Pre-treatment removes all materials that can be easily collected from the raw sewage before they damage or clog the pumps and sewage lines of treatment. Objects commonly removed during pretreatment include trash, tree limbs, and other large objects. The influent in sewage water passes through a bar screen to remove all large objects like cans, rags, sticks, plastic packets, etc. carried in the sewage stream. This is most commonly done with an automated mechanically raked bar screen in modern plants serving large populations, while in smaller or less modern plants, a manually cleaned screen may be used. The raking action of a mechanical bar screen is typically paced according to the accumulation on the bar screens and/or flow rate. The solids are collected and later disposed of in a landfill, or incinerated.

#### 5.2.1.1 GRIT REMOVAL

Grit consists of sand, gravel, cinders, and other heavy materials. Pretreatment may include a sand or grit channel or chamber, where the velocity of the incoming sewage is adjusted to allow the settlement of sand and grit. Grit removal is necessary to

- Reduce formation of heavy deposits in aeration tanks, aerobic digesters, pipelines, channels, and conduits
- Reduce the frequency of digester cleaning caused by excessive accumulations of grit and
- Protect moving mechanical equipment from abrasion and accompanying abnormal wear.

The removal of grit is essential for equipment with closely machined metal surfaces such as comminutors, fine screens, centrifuges, heat exchangers, and high pressure diaphragm pumps. Grit chambers come in 3 types: horizontal grit chambers, aerated grit chambers, and vortex grit chambers. Sand and other particles of specific gravity  $> 2.65$  are settled in the Grit Chamber. Grit removal systems have been designed to remove clean inorganic particles that are greater than 0.210 millimetres, most grit passes through the grit removal flows under normal conditions. During periods of high flow deposited grit is resuspended and the quantity of grit reaching the treatment plant increases substantially. It is, therefore, important that the grit removal system not only operate efficiently during normal flow conditions but also under sustained peak flows when the greatest volume of grit reaches the plant.

#### **5.2.1.2 PARSHALL FLUME**

The Parshall flume is an open channel flow metering device that was developed to measure the flow. It is used to measure volumetric flow rate in municipal sewer lines, and influent/effluent flows in wastewater treatment plants. In Parshall flume flow should be measured at a point that is  $2/3$  the length of the converging wall measured back from the throat. It is important to note that this distance is NOT simply  $2/3$  of the distance back from the throat, but  $2/3$  of the length of the side wall. The advantages of the Parshall flume are

- It passes sediment and small trash easily
- It requires only a small head loss, and
- It allows accurate flow measurements even when partially submerged.

A disadvantage of the Parshall flume is that it is not accurate at low flow rates.

#### **5.2.1.3 EQUALIZATION TANK**

Flow equalization is used to minimize the variability of water and wastewater flow rates and composition. The main function of the equalization tank is to act as a buffer: to collect the raw incoming sewage that comes at widely fluctuating rates and pass it on to the rest of the sewage treatment plant at a steady flow rate. The tank is rectangular in shape to provide placement of air diffusers for full floor coverage. Each unit operation in a treatment train is designed for specific wastewater characteristics. Improved efficiency and control are possible when all unit operations are carried out at uniform flow conditions. The equalization tanks are provided (i) to balance fluctuating flows or concentrations, (ii) to assist self- neutralization, or (iii) to even out the effect of a periodic "slug" discharge from a batch process. In STP design equalization tank is provided to enable the source to operate at a predetermined rate. Waste water generated does not flow at a constant rate. Even in dry weather, the flow rate varies from hour to hour. Flow equalization is a process of controlling flow velocity and flow composition. It is necessary in many municipal treatment processes to dampen severe variation in inflow and water quality. Providing consistent flow and loading to a biological process is important to maintain optimal treatment. The principal factors considered in the design of equalization tanks are

- Location and configuration,
- Volume
- Tanks geometry,
- Mixing and air requirements,
- Appurtenances (accessories, trappings) and
- Pumping facilities

Considering the variation in hourly flow pattern adopted as shown in appendix, volume of equalization tank is arrived at around 1055 m<sup>3</sup>. Thus in order to maintain uniform flow rate the retention time is considered as 5.06 hrs. Due to the additional retention time, aeration and mixing is required to prevent the raw wastewater from becoming septic and to maintain solids in suspension. Homogeneous mixture in Equalization Tank is done via the actions of coarse bubble

diffusers, oxygen transfer efficiency of a coarse bubble diffuser is 10%-20% and are capable of delivering 6 - 12 m<sup>3</sup> / hour air, typical diameter of coarse bubble diffuser is 150 mm other role is to make water homogeneous in nature.

### **5.2.2 SECONDARY TREATMENT**

Secondary treatment removes the soluble organic matter that escapes primary treatment. It also removes more of the suspended solids. Removal is usually accomplished by biological processes in which microbes consume the organic impurities as food, converting them into carbon dioxide, water, and energy. MBBR has been proposed as a secondary treatment option due to the following reasons.

1. MBBR has been in existence sufficiently for a long time, also in India and is a proven technology.
2. Minimum footprint
3. Better stabilized sludge
4. Better Effluent Quality
5. Less sophisticated
6. Spare parts available
7. Lower life cycle cost
8. Nil odour nuisance and other environmental hazards

The MBBR process is an attached growth biological wastewater treatment process. That is, the microorganisms that carry out the treatment are attached to a solid medium, as in trickling filters or RBC systems. The microorganisms that carry out the treatment are kept suspended in the mixed liquor in the aeration tank.

#### **5.2.2.1 MOVING BED BIO REACTOR (MBBR) TECHNOLOGY**

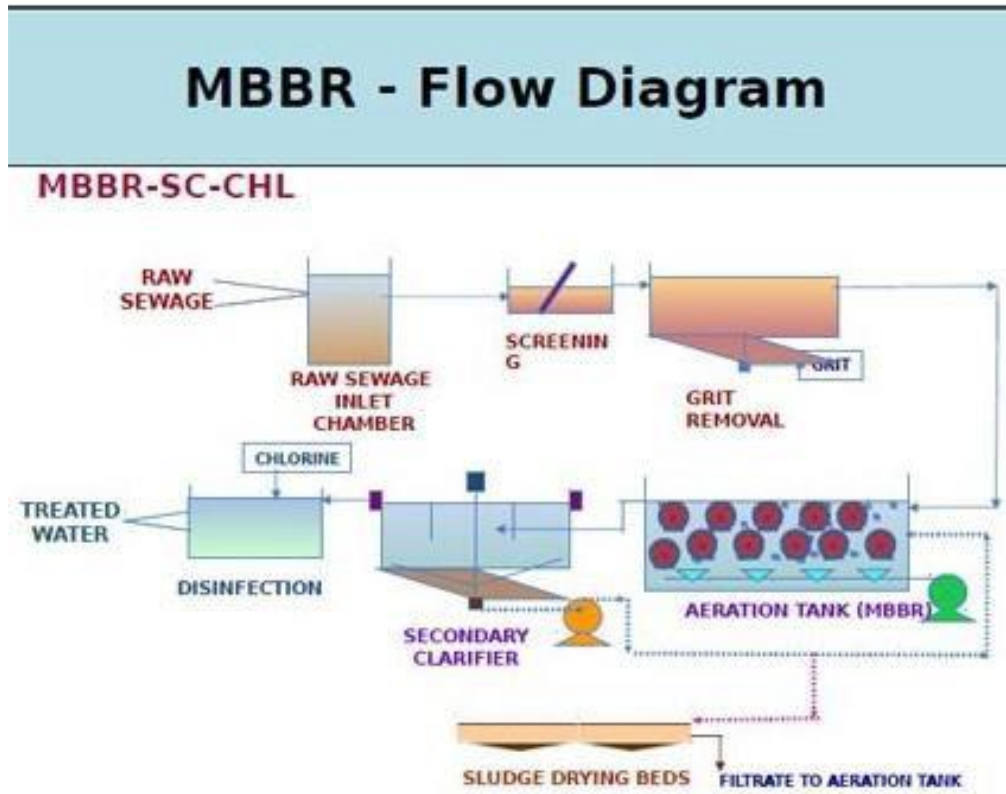
Moving Bed Bio Reactor (MBBR) / Fixed Aerated Bioreactor (FAB) With the moving bed bio reactor (MBBR) an economically solution is offered for waste water treatment if the "bulk" of the pollution load must be disposed of (as means of cost reduction) or if applicable discharge regulations are not as strict. With this application we offer advanced waste water treatment solutions for the industrial and municipal markets. These solutions significantly increase the capacity and efficiency of existing waste water treatment plants, while minimizing the size of new plant deployments.

This method makes it possible to attain good efficiency results of disposal with low energy consumption. This process is used for the removal of organic substances, nitrification and denitrification.

The MBBR system consists of an activated sludge aeration system where the sludge is collected on recycled plastic carriers. These carriers have an internal large surface for optimal contact water, air and bacteria.

MBBR technology employs thousands of polyethylene biofilm carriers operating in mixed motion within an aerated wastewater treatment basin. Each individual bio- carrier increases productivity through providing protected surface area to support the growth of heterotrophic and autotrophic bacteria within its cells. It is this high-density population of bacteria that achieves high-rate biodegradation within the system, while also offering process reliability and ease of operation.





This technology provides cost-effective treatment with minimal maintenance since MBBR processes self-maintain an optimum level of productive biofilm.

Additionally, the biofilm attached to the mobile bio carriers within the system automatically responds to load fluctuations.

### Effluent Characteristics

The characteristics of the effluent which is coming out from the proposed plant is given below which is complying the PCB and CPHEEO standards.

Parameters	Units	Values
Biochemical Oxygen Demand (BOD)	mg/l	<10
Chemical Oxygen Demand (COD)	mg/l	<50
pH	units	6.5- 9
Total Suspended Solids (TSS)	mg/l	<10
Oil and grease	mg/l	<10

### 5.2.2.2 PROCESS BENEFITS

- Compact Design: A fraction of the size of conventional systems
- Expandable: Capacity can be easily upgraded by simply increasing the fill fraction of biofilm carriers
- Single Pass Process: No return activated sludge stream required

- Load Responsive: Actively sloughed biofilm automatically responds to load fluctuations
- Minimal Maintenance
  
- No F/M ratios or MLSS levels to maintain MBBR processes are an excellent solution for common wastewater applications including
- BOD Reduction
- Nitrification
  
- Total Nitrogen Removal
  
- Moving Bed Biofilm Reactor systems deliver a flexible, cost-effective, and easy-to-operate means to address current wastewater requirements and the expandability to meet future loads or more stringent discharge requirements within a compact design.

Advantages of the MBBR system over other activated sludge processes are:

- Reduced footprint for the aeration tank (MBBR reactor) and overall plant footprint  
Relatively stable and can withstand shock loads
- Low sludge production
- Mother Liquor Suspended Solids (MLSS) is not a design parameter so no need for Return Activated Sludge (RAS) and the associated
- pumps/pumping facilities
- Modular design, easy to expand
- Utilizes medium/coarse bubble diffusers, instead of more expensive fine bubble systems

### **5.2.2.3 FEATURES OF MBBR**

In Fluidized aerobic process a non-clogging biofilm reactor with special grade plastic media having density close to that of water is used. This plastic media has more surface area and biofilm grows on these media which move along with the water in the reactor. This movement within the reactor is generated by providing aeration with the help of diffusers placed at the bottom of the aerobic reactor. The thin biofilm on the elements enables the bacteria to act upon the biodegradable matter in sewage and reduce BOD / COD content in the presence of oxygen present in air. Area requirement for this process is 1/10 of space required for conventional sewage treatment plants. Power requirements are low as recycling of sludge is not done in this method as required in ASP. This can take shock loads and can withstand variation. Expected COD/BOD removal is more than 95%.

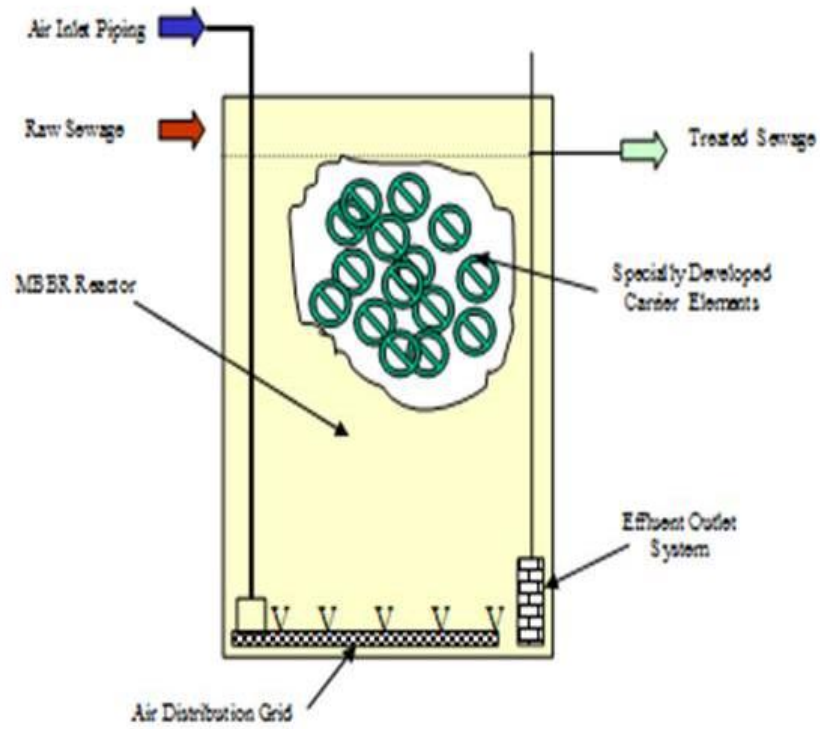


Fig 5.2: Essential Components of MBBR



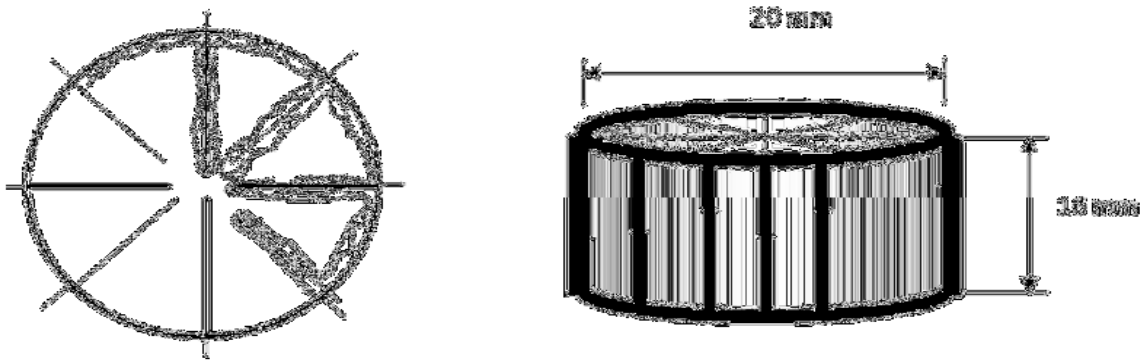


Fig 5.3: MBBR Media

#### 5.2.2.4 MBBR WASTEWATER TREATMENT PROCESS ALTERNATIVES

The MBBR wastewater treatment process is quite flexible and can be used in several different ways. The figure shows the flow diagram of the options adopted for the proposed treatment plant, with single stage BOD removal, nitrification, post anoxic denitrification with raw sewage feeding for carbon source and thereafter removing low grade BOD in the subsequent reactor.

#### 5.2.2.5 POST ANOXIC DE-NITRIFICATION ALTERNATIVE

In order to carry out the de-nitrification of the waste water flow (removal of the Nitrogen from the waste water), it is necessary to first nitrify the waste water, conversion of ammonia nitrogen typically present in the influent wastewater to nitrate. Nitrification will only take place at a reasonable rate in the MBBR reactor if the BOD level is quite low, thus an MBBR de-nitrification process will need a reactor for BOD removal, one for nitrification and one for de-nitrification. Nitrification reactor will always follow the BOD removal reactor because of the need for low BOD level in the nitrification reactor. De-nitrification reactor is provided after the nitrification reactor as the post anoxic de-nitrification.

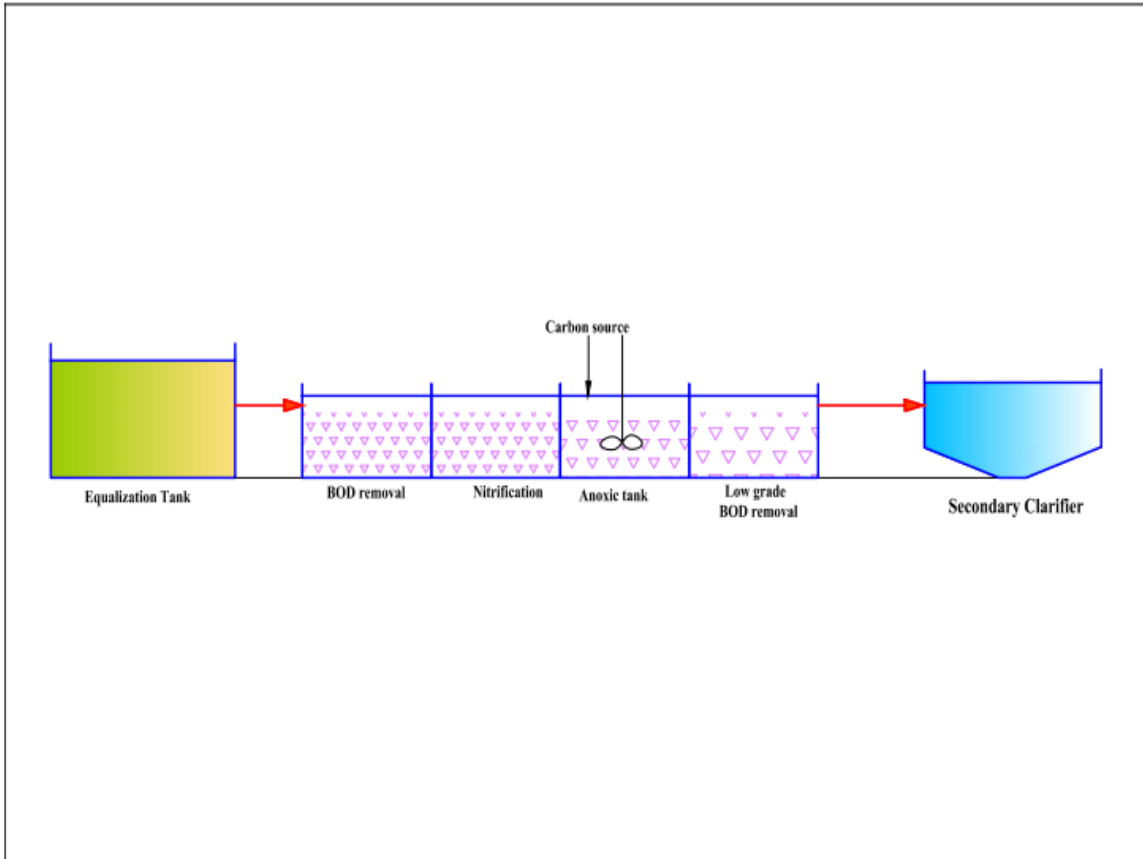


Figure 5.4 Nitrification and De-Nitrification Reactors

### 5.2.2.6 NITRIFICATION TANK

Ammonia in wastewater could originate from a variety of sources, including Proteins (meat and blood), urea, amino acid products, casein, corrosion inhibitors, process chemicals and raw materials or cleaning chemicals containing quaternary ammonium compounds. Nitrification is a bio-chemical reaction that occurs inside bacteria. Two species of bacteria are involved in the process – Nitrosomonas and Nitrobacter.

These bacteria are collectively known as nitrifiers and are autotrophic, i.e. they get their carbon source from inorganic carbon (carbonates, bicarbonates) or carbon dioxide.

A healthy and stable population of nitrifiers (Nitrosomonas and Nitrobacter) will not exist without the following conditions:

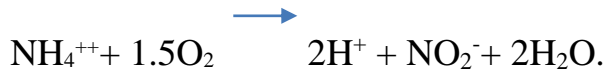
- **OXYGEN:** Nitrifiers are obligate aerobes, i.e. they require free molecular oxygen and are killed off by anaerobic conditions. Maximum nitrification occurs at a D.O. (Dissolved Oxygen) level of 3.0 mg/l. Significant nitrification occurs at a D.O. level of 2.0 to 2.9 mg/l. Nitrification ceases at D.O. levels of <0.5 mg/l. Approximately 4.6 kg of oxygen are required for every kg of ammonium ions oxidized to nitrate (This compares with a requirement of 1 kg of oxygen to oxidize 1 kg of carbonaceous B.O.D.). An absence of oxygen for <4 hours does not adversely affect nitrifiers when oxygen is restored. To ensure effective nitrification, always maintain a D.O. level of 1.5 mg/l.
- **TEMPERATURE:** Nitrification is temperature sensitive. The optimum temperature for nitrification is generally considered to be 30°C.

## TEMPERATURE

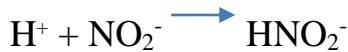
## EFFECT UPON NITRIFICATION

>45°C	Nitrification ceases
28-32°C	Optimal temperature range
16°C	Approx. 50% of nitrification rate at 30°C
10°C	Significant reduction in nitrification rate – 20% of rate at 30°C
<5°C	Nitrification ceases

- **ALKALINITY AND pH:** Alkalinity is lost in an activated sludge process during nitrification. Nitrifiers use alkalinity as a carbon source, i.e., they use an inorganic form of carbon. Hydrogen ions (H<sup>+</sup>) are produced when ammonium ions are oxidized to nitrite:



Nitrous acid (HNO<sub>2</sub>) is also produced during the oxidation of ammonium ions. This destroys alkalinity:



7.14 mg of alkalinity as CaCO<sub>3</sub> are destroyed for every mg of ammonium ions oxidized. If the pH drops below 6.7, there is a significant decrease in nitrification. Therefore, it is important to maintain an adequate alkalinity in the aeration tank to provide pH stability and also to provide inorganic carbon for nitrifiers. After complete nitrification, a residual alkalinity of 50 mg/l in the aeration tank is desirable. If this alkalinity is not present, then alkalinity should be added to the aeration tank. The optimal pH range for nitrification is 7.2 to 8.0. A substantial reduction in nitrification activity occurs at pH levels below 6.7.

- **HIGH MEAN CELL RESIDENCE TIME (SLUDGE AREA) OR LOW F:M:**

The necessary MCRT or F: M values are temperature dependent. Nitrifier activity and reproduction are decreased during cold temperatures. Therefore, in winter, an increase in the quantity of nitrifiers (MLVSS) or an increase in MCRT is often required to maintain effective nitrification. Reducing the wasting rate (WAS rate) will increase the MCRT.

**INHIBITION/TOXICITY:** Inhibition is temporary short-term or long-term loss of enzymatic activity. Toxicity is permanent loss of enzymatic activity or irreversible damage to cellular structure. Small increases in inhibitory wastes can cause a dramatic reduction in nitrification. Nitrifiers grow slowly and only account for a small portion of the bacterial assemblage in an aeration system. Nitrifiers are excellent indicators of toxic shock in an effluent treatment plant. Significant loss of nitrification will occur before loss in efficiency of carbonaceous BOD removal. Nitrifying bacteria are also inhibited by relatively low concentrations of free ammonia (10 mg/l for Nitrosomonas; 0.1 mg/l for Nitrobacter) and free nitrous acid (1.0 mg/l for both Nitrosomonas and Nitrobacter). Free ammonia (NH<sub>3</sub>) is produced from ammonium ions under a high pH in the aeration tank. Free nitrous acid (HNO<sub>2</sub>) is produced from nitrite ions under a low pH in the aeration tank. This type of inhibition is known as substrate inhibition. Substrate inhibition usually occurs at a concentration of 400-500 mg/l ammonium ions or when ammonium ions are converted to nitrite ions at a faster rate than nitrite ions are converted to nitrate ions.

- **BOD:** Soluble and simplistic forms of cBOD can inhibit the activity of nitrifying bacteria. They are able to enter the cells of nitrifying bacteria and inactivate their enzyme systems. This form of cBOD must be degraded significantly or completely by organotrophs in order for nitrifying bacteria to oxidize ammonium and nitrite ions. Nitrifiers are dependent on organotrophs to reduce cBOD to relatively low concentrations (<40-50 mg/l). Excess BOD can cause a significant oxygen demand, which may cause a drop in D.O. that adversely affects nitrifying bacteria. Fluctuations in BOD loading may lead to intermittent nitrification.

### **5.2.2.7 DE-NITRIFICATION PROCESS IN THE REACTOR**

Denitrification is the process that converts nitrate to nitrogen gas, thus removing bioavailable nitrogen and returning it to the atmosphere. Unlike nitrification, denitrification is an anaerobic process, occurring mostly in soils and sediments and anoxic zones in lakes and oceans. In a biological water treatment, denitrification is generally the next step following nitrification. Here nitrate (NO<sub>3</sub>) and nitrite (NO<sub>2</sub>) are transformed into nitrogen (N<sub>2</sub>). The gaseous nitrogen escapes out of the water into the air. Air exists for 78% out of nitrogen (N<sub>2</sub>) and for 21% out of O<sub>2</sub> (oxygen), so N<sub>2</sub> is absolutely not polluting the atmosphere. A large number of aerobic bacteria is able to perform denitrification. When there is no oxygen in the water, these bacteria use nitrate and nitrite as a source of oxygen.

The denitrification reaction requires a carbon source. Hence raw sewage is proposed to dose from the equalization tank to the denitrification tank and BOD in the primary effluent waste water is used as the carbon source for the denitrification. Thereafter a reactor is also proposed for dealing low grade BOD in the effluent.

### **5.2.2.8 SECONDARY CLARIFIER**

Secondary clarifiers are to separate biological floc from the treated liquid waste stream. Plate settlers are also being proposed in the clarifier to get more clarified water. Clarifiers are settling tanks built with mechanical means for continuous removal of solids being deposited by sedimentation. A clarifier is generally used to remove solid particulates or suspended solids from liquid for clarification. Necessary coagulants are being added before feeding the clarifier.

### **5.2.2.9 CLARIFIED WATER COLLECTION TANK**

After treatment, the effluent is stored in this tank from where it is taken for further treatment.

### **5.2.2.10 SLUDGE COLLECTION SUMP**

The dead bacteria that dies after consuming BOD and COD are retained in the form of sludge from the bottom of the tank.

### **5.2.2.11 DEWATERING UNIT**

A dewatering unit is required to further dry the sludge. The centrate at the outlet of the dewatering unit is then recirculated to the system.

## **5.2.3 TERTIARY TREATMENT**

Tertiary treatment refers to secondary treatment followed by a filtration step, such as media filtration, so that the turbidity and TOC concentrations are generally lower, and if coagulation with metal salts is used, then the phosphate concentration will also be reduced.

### 5.2.3.1 PRESSURE SAND FILTER (PSF)

The treated water which is collected in the filter feed tank shall be pumped into the Pressure Sand Filter using the Filter Feed Pumps. They are the most popular method for removal of turbidity from water. The Pressure Sand Filter consists of a multiple layer of sand with a variety in size and specific gravity. These Filters are designed to remove turbidity and suspended particles present in the feed water with minimum pressure drop. Raw water flows downwards through the filter bed and as the suspended matter, which is treated by addition of a coagulant like alum or poly electrolyte, is retained on the sand surface and between the sand grains immediately below the surface. There is steady rise in the loss of head over a period of time and the flow reduces once the pressure drop across the filter is excessive. The filter is then taken out of service and cleaning of the filter media is affected by flow reversal also called as backwash. To assist in cleaning the bed, the backwash operation is sometimes preceded by air scouring by way of agitation through the under drain system. The air scouring agitates the sand with a scrubbing action, which loosens the intercepted particles.



Fig 5.5 Pressure Sand Filter

### 5.2.3.2 ACTIVATED CARBON FILTER (ACF)

Filtered wastewater from Pressure sand filter is then passed through the Activated Carbon Filter. They are generally employed in the process of removing organic compounds and/or extracting free chlorine from water, thereby making the water suitable for discharge.

Activated carbon is commonly used for removing organic constituents and residual disinfectants in water supplies. This not only improves taste and minimizes health hazards; it protects other water treatment units such as reverse osmosis membranes and ion exchange resins from possible damage due to oxidation or organic fouling. Activated carbon is a favoured water treatment technique because of its multifunctional nature and the fact that it adds nothing detrimental to the treated water. Most activated carbons are made from raw materials such as nutshells, wood, coal and petroleum.

Carbon filtering is a method of filtering that uses a bed of activated carbon to remove contaminants and impurities, using chemical adsorption. Each particle/granule of carbon provides a large surface area/pore structure, allowing contaminants the maximum possible exposure to the active sites within the filter media.





Fig 5.6 Activated Carbon Filter

### 5.2.3.3 CHLORINE CONTACT TANK

Chlorination is by far the most common method of wastewater disinfection and is used worldwide for the disinfection of pathogens before discharge into receiving streams, rivers or oceans. Chlorine is known to be effective in destroying a variety of bacteria, viruses and protozoa, including Salmonella, Shigella and Vibrio cholera. Disinfection is achieved at this facility through chlorination using chlorine gas. The purpose of the Chlorine Contact Tanks is to allow sufficient time for the chlorine to disinfect the water.

### 5.2.3.4 TREATED WATER TANK

Treated water is being collected in treated water tank and same is disposed into Chanthathodu which flows into Manimala river.

### 5.2.3.5 LAYOUT OF STP

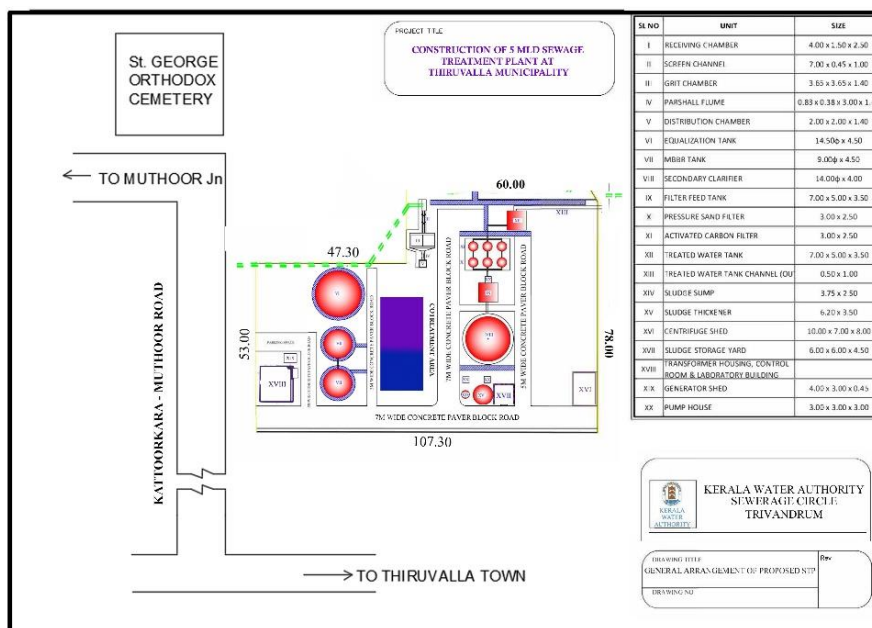
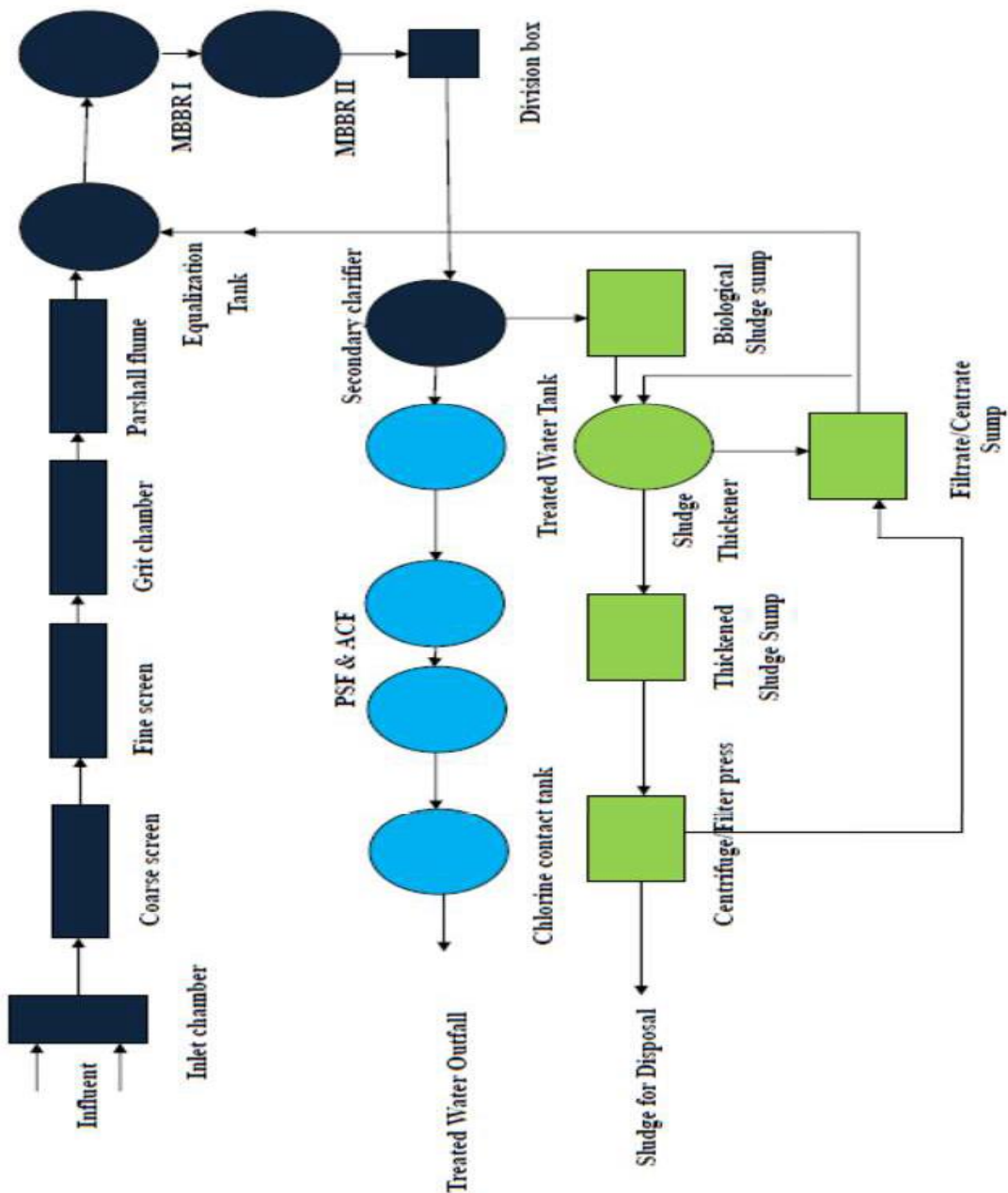


Figure 5.7 Layout of STP

### 5.2.4 SLUDGE MANAGEMENT

The solid particles separated from wastewater is in the form of slurry and known as sludge. The volume of sludge is more as it contains more water. Hence to reduce the volume of sludge, dewatering process is done with the help of centrifuges, sludge thickening units and sludge press. After this process, it is converted in the form of cake. The sludge from sewage is rich with nitrogen, phosphorous, Sulphur and other minerals which are essential for the growth of plants. Hence it can be used as a manure. Further researches are going on this field to make this cake as a construction material but is in its infant stage.

### 5.2.5 PROCESS FLOW AND DESIGN



### 5.2.6 Process Design

<b>MBBR PROCESS</b>				
<b>Capacity: Average Flow</b>			<b>5MLD</b>	
Sl No	Description of Parameter	Value	Unit	Reference/Remarks
a.	Quantity of Sewage Generated	5000000.00	LPD	
		5000.00	Cum/day	
		208.33	Cum/hr	
b.	Population Equivalent	41667		
c.	Assumed Peak Factor	2.50		
d.	Peak Design Flow	520.83	Cum/hr	
		0.145	Cum/sec	
<b>RAW SEWAGE CHARACTERISTICS</b>				
a.	Average Sewage flow entering the treatment plant	208.33	Cum/hr	
b.	Peak Sewage flow entering the treatment plant	520.83	Cum/hr	
c.	COD	500.00	mg/Lt	
d.	BOD	250.00	mg/Lt	
e.	TSS	400.00	mg/Lt	
f.	Total Nitrogen (As N)	40.00	mg/Lt	
g.	Total Phosphorous (As P)	7.00	mg/Lt	
h.	Fecal Coliform	3 x 10 <sup>7</sup>	mpn/100ml	
i.	E Coliform	4 x 10 <sup>7</sup>	mpn/100ml	
j.	Chlorides as Cl	170.00	mg/Lt	
k.	pH	6 to 9		

TREATED SEWAGE CHARACTERISTICS (AFTER FILTRATION)				
A	<b>COD</b>	<b>100.00</b>	<b>MG/LT</b>	
B	<b>BOD</b>	<b>10.00</b>	<b>MG/LT</b>	
C	<b>TSS</b>	<b>30.00</b>	<b>MG/LT</b>	
D	<b>TOTAL NITROGEN (AS N)</b>	<b>10.00</b>	<b>MG/LT</b>	
E	<b>TOTAL PHOSPHOROUS (AS P)</b>	<b>&lt; 2</b>	<b>MG/LT</b>	
F	<b>PH</b>	<b>6 TO 9</b>		
G	<b>E COLLIFORM</b>	<b>1 x 10<sup>3</sup></b>	<b>MPN/100ML</b>	
<b>1 RECEIVING CHAMBER</b>				
	<b>QUANTITY OF FLOW (AVE)</b>	<b>208.33</b>	<b>CUM/HR</b>	
	<b>PEAK FLOW</b>	<b>520.83</b>	<b>CUM/HR</b>	
		<b>0.145</b>	<b>CUM/SEC</b>	
	<b>AVERAGE RETENTION TIME FOR THE PEAK FLOW</b>	<b>45.00</b>	<b>SEC</b>	
	<b>VOLUME OF THE INLET CHAMBER</b>	<b>6.51</b>	<b>CUM</b>	
	<b>ASSUMED DEPTH OF FLOW</b>	<b>2.00</b>	<b>M</b>	
	<b>AREA REQUIRED FOR INLET CHAMBER</b>	<b>3.26</b>	<b>SQ.M</b>	
	<b>LENGTH OF THE TANK</b>	<b>2.50</b>	<b>M</b>	
	<b>BREADTH OF THE TANK</b>	<b>1.30</b>	<b>M</b>	
	<b>SAY</b>	<b>1.50</b>	<b>M</b>	
<p style="text-align: center;">PROVIDE THE DIMENSIONS OF RECEIVING CHAMBER AS 2.5 M X 1.5 M X 2 M SWD + 0.5 M FREEBOARD</p>				
<b>2 MECHANICAL COARSE SCREEN CHANNEL</b>				
	<b>PEAK DESIGN FLOW</b>	<b>0.145</b>	<b>CUM/S</b>	
	<b>NO. OF SCREEN</b>	<b>1.00</b>	<b>NOS. (WORKING)</b>	

	<b>PEAK FLOW RATE PER SCREEN</b>	<b>0.145</b>	<b>M<sup>3</sup>/SEC..</b>	
	<b>VELOCITY AT PEAK FLOW</b>	<b>0.950</b>	<b>M/SEC.</b>	<b>ASSUMED PEAK VELOCITY</b>
	<b>AREA REQUIRED FOR SCREEN</b>	<b>0.15</b>	<b>M<sup>2</sup></b>	
	<b>ASSUMING DEPTH OF FLOW</b>	<b>0.40</b>	<b>METER</b>	
	<b>WIDTH OF OPENING</b>	<b>0.38</b>	<b>METER</b>	
	<b>SAY</b>	<b>0.41</b>	<b>M</b>	
	<b>CLEAR BAR SPACING</b>	<b>20</b>	<b>MM</b>	
	<b>BAR THICKNESS</b>	<b>10.00</b>	<b>MM</b>	
	<b>NO OF OPENING</b>	<b>14</b>	<b>NOS</b>	
	<b>INSIDE WIDTH OF SCREEN</b>	<b>0.41</b>	<b>M</b>	
	<b>PROVIDE CHAMBER WIDTH</b>	<b>0.45</b>	<b>M</b>	
	<b>VELOCITY</b>	<b>1.15</b>	<b>M/SEC.</b>	
	<b>FULL HEIGHT OF THE CHANNEL</b>	<b>1.00</b>	<b>M</b>	
	<b>ANGLE OF INCLINATION</b>	<b>70.00</b>	<b>DEGREE</b>	
	<b>ACTUAL VELOCITY AT PEAK FLOW</b>	<b>0.73</b>	<b>M/SEC.</b>	<b>&gt; 0.6M/S , HENCE OK</b>
	<b>LENGTH OF CHANNEL REQUIRED D/S</b>	<b>2.10</b>	<b>M</b>	
	<b>SAY</b>	<b>2.50</b>	<b>M</b>	
	<b>LENGTH OF CHANNEL U/S</b>	<b>1.50</b>	<b>M</b>	
	<b>TOTAL LENGTH OF CHANNEL</b>	<b>4.00</b>	<b>M</b>	
PROVIDE THE DIMENSIONS OF MECHANICAL COARSE SCREEN CHANNEL AS 4 M X 0.45 M X 0.4 M SWD + 0.6 M FREEBOARD				
3	<b>MECHANICAL FINE SCREEN CHANNEL</b>			
	<b>PEAK DESIGN FLOW</b>	<b>0.145</b>	<b>CUM/S</b>	
	<b>NO. OF SCREEN</b>	<b>1.00</b>	<b>NOS. (WORKING)</b>	
	<b>PEAK FLOW RATE PER SCREEN</b>	<b>0.145</b>	<b>M<sup>3</sup>/SEC..</b>	

	<b>VELOCITY AT PEAK FLOW</b>	<b>0.950</b>	<b>M/SEC.</b>	<b>ASSUMED PEAK VELOCITY</b>
	<b>AREA REQUIRED FOR SCREEN</b>	<b>0.15</b>	<b>M<sup>2</sup></b>	
	<b>ASSUMING DEPTH OF FLOW</b>	<b>0.40</b>	<b>METER</b>	
	<b>WIDTH OF OPENING</b>	<b>0.38</b>	<b>METER</b>	
	<b>SAY</b>	<b>0.41</b>	<b>METER</b>	
	<b>CLEAR BAR SPACING</b>	<b>6</b>	<b>MM</b>	
	<b>BAR THICKNESS</b>	<b>10.00</b>	<b>MM</b>	
	<b>NO OF OPENING</b>	<b>26</b>	<b>NOS</b>	
	<b>INSIDE WIDTH OF SCREEN</b>	<b>0.41</b>	<b>M</b>	
	<b>PROVIDE CHAMBER WIDTH</b>	<b>0.45</b>	<b>M</b>	
	<b>VELOCITY</b>	<b>2.04</b>	<b>M/SEC.</b>	
	<b>FULL HEIGHT OF THE CHANNEL</b>	<b>1.00</b>	<b>M</b>	
	<b>ANGLE OF INCLINATION</b>	<b>70.00</b>	<b>DEGREE</b>	
	<b>ACTUAL VELOCITY AT PEAK FLOW</b>	<b>1.29</b>	<b>M/SEC.</b>	
	<b>LENGTH OF CHANNEL REQUIRED D/S</b>	<b>2.10</b>	<b>M</b>	
	<b>SAY</b>	<b>2.50</b>	<b>M</b>	
	<b>LENGTH OF CHANNEL U/S</b>	<b>1.50</b>	<b>M</b>	
	<b>TOTAL LENGTH OF CHANNEL</b>	<b>4.00</b>	<b>M</b>	
PROVIDE THE DIMENSIONS OF MECHANICAL FINE SCREEN CHANNEL AS 4M X 0.45M X 0.4 M SWD + 0.6 M FREEBOARD				
4	<b>MANUAL COARSE SCREEN CHANNEL-STANDBY</b>			
	<b>PEAK DESIGN FLOW</b>	<b>0.145</b>	<b>CUM/S</b>	
	<b>NO. OF SCREEN</b>	<b>1.00</b>	<b>NOS. (WORKING)</b>	
	<b>PEAK FLOW RATE PER SCREEN</b>	<b>0.145</b>	<b>M<sup>3</sup>/SEC..</b>	
	<b>VELOCITY AT PEAK FLOW</b>	<b>0.950</b>	<b>M/SEC.</b>	<b>ASSUMED PEAK VELOCITY</b>

	<b>AREA REQUIRED FOR SCREEN</b>	<b>0.15</b>	<b>M<sup>2</sup></b>	
	<b>ASSUMING DEPTH OF FLOW</b>	<b>0.40</b>	<b>METER</b>	
	<b>WIDTH OF OPENING</b>	<b>0.38</b>	<b>METER</b>	
	<b>SAY</b>	<b>0.41</b>	<b>M</b>	
	<b>CLEAR BAR SPACING</b>	<b>20</b>	<b>MM</b>	
	<b>BAR THICKNESS</b>	<b>10.00</b>	<b>MM</b>	
	<b>NO OF OPENING</b>	<b>14.00</b>	<b>NOS</b>	
	<b>INSIDE WIDTH OF SCREEN</b>	<b>0.41</b>	<b>M</b>	
	<b>PROVIDE CHAMBER WIDTH</b>	<b>0.45</b>	<b>M</b>	
	<b>VELOCITY</b>	<b>1.15</b>	<b>M/SEC.</b>	
	<b>FULL HEIGHT OF THE CHANNEL</b>	<b>1.00</b>	<b>M</b>	
	<b>ANGLE OF INCLINATION</b>	<b>45.00</b>	<b>DEGREE</b>	
	<b>VELOCITY AT PEAK FLOW</b>	<b>0.60</b>	<b>M/SEC.</b>	<b>&gt; 0.6M/S , HENCE OK</b>
	<b>LENGTH OF CHANNEL REQUIRED D/S</b>	<b>1.90</b>	<b>M</b>	
	<b>SAY</b>	<b>2.20</b>	<b>M</b>	
	<b>LENGTH OF CHANNEL U/S</b>	<b>1.50</b>	<b>M</b>	
	<b>TOTAL LENGTH OF CHANNEL</b>	<b>3.70</b>	<b>M</b>	
<b>PROVIDE THE DIMENSIONS OF MANUAL COARSE SCREEN CHANNEL AS 3.7 M X 0.41 M X 0.4 M SWD + 0.6 M FREEBOARD</b>				
<b>DAILY SCREENING QUANTITY</b>				
	<b>DAILY SEWAGE QUANTITY</b>	<b>5000</b>	<b>M<sup>3</sup>/DAY</b>	
	<b>RATE OF SCREENING QUANTITY</b>	<b>0.015</b>	<b>M<sup>3</sup>/1000M<sup>3</sup></b>	
	<b>DAILY SCREENING QUANTITY</b>	<b>0.075</b>	<b>M<sup>3</sup>/DAY</b>	
<b>5</b>	<b>GRIT SEPERATOR</b>			

NO. OF GRIT UNITS	2		(1W+1SB)
PEAK FLOW	0.145	CUM/S	
FLOW IN EACH UNIT	0.145	CUM/S	
COMPUTATION OF SETTLING VELOCITY:			
GRIT PARTICLE SIZE	0.150	MM	
SPECIFIC GRAVITY OF PARTICLE	2.65		
HYDRAULIC RETENTION TIME	60.00	SEC	
VOLUME OF THE GRIT CHAMBER	8.68	M <sup>3</sup>	
SURFACE OVERFLOW RATE (SOR)	959	CUM/SQM/D	ASSUMED
	0.011	CUM/SQM/SEC	
AREA	13.03	M <sup>2</sup>	
SWD	0.70	M	
PROPOSING A SQUARE CHANNEL OF SIZE	3.61		
LENGTH OF GRIT SEPERATOR	3.65	M	
WIDTH OF GRIT SEPERATOR	3.65	M	
CRITICAL DISPLACEMENT VELOCITY (VC)	$[8K/F(SS-1)GD]^{0.5}$		
WHERE,			
K	0.040		
F	0.03		
SS	2.65		
D	0.00015	M	
VC	0.097	M/SEC	
HORIZONTAL VELOCITY OF FLOW V <sub>H</sub> SHOULD BE KEPT LESS THAN THE CRITICAL DISPLACEMENT VELOCITY V <sub>C</sub>			
SWD	0.70	M	



	<b>VH</b>	<b>0.06</b>	<b>M/SEC</b>	<b>&lt;VC , HENCE SAFE</b>
	<b>HRT AT PEAK FLOW</b>	<b>64.46</b>	<b>SEC</b>	<b>&gt; 60, HENCE SAFE</b>
<p align="center">PROVIDE THE DIMENSION OF GRIT SEPARATOR AS 3.65 M X 3.65 M X 0.7 M SWD + 0.5 M FREEBOARD</p>				
<b>6</b>	<b>APPROACH CHANNEL FOR PARSHALL PLUME</b>			
	<b>LOWER VALUE OF FLOW IN MLD</b>	<b>1</b>	<b>MLD</b>	<b>SIZING DONE AS PER CPHEEO MANUAL APPENDIX A - 5-9</b>
	<b>HIGHER VALUE OF FLOW IN MLD</b>	<b>12.5</b>	<b>MLD</b>	
	<b>LOWER VALUE OF FLOW IN LPS</b>	<b>12</b>	<b>LPS</b>	
	<b>HIGHER VALUE OF FLOW IN LPS</b>	<b>145</b>	<b>LPS</b>	<b>ASSUMED FROM 0.885 TO 0.99</b>
	<b>THROAT WIDTH (W) IN M, FROM TABLE</b>	<b>0.38</b>	<b>M</b>	
	<b>MOUTH WIDTH (D) IN M, FROM TABLE</b>	<b>0.83</b>	<b>M</b>	
	<b>LIQUID DEPTH IN M AT LOW FLOW</b>	<b>0.06</b>	<b>M</b>	
	<b>LIQUID DEPTH IN M AT HIGH FLOW</b>	<b>0.30</b>	<b>M</b>	
	<b>VELOCITY AT MOUTH IN LOW FLOW IN M/S</b>	<b>0.25</b>	<b>M/SEC</b>	
	<b>VELOCITY AT MOUTH IN HIGH FLOW IN M/S</b>	<b>0.57</b>	<b>M/SEC</b>	
	<b>APPROACH CHANNEL WIDTH, M</b>	<b>0.83</b>	<b>M</b>	
	<b>APPROACH CHANNEL, LIQUID DEPTH, M</b>	<b>0.30</b>	<b>M</b>	
	<b>APPROACH CHANNEL, LENGTH, M</b>	<b>3.00</b>	<b>M</b>	
	<b>FREE BOARD</b>	<b>0.7</b>	<b>M</b>	

	TOTAL DEPTH			
<b>PROVIDE THE DIMENSION OF APPROACH CHANNEL FOR PARSHALL PLUME AS 0.38MX0.83MX3M SWD + 0.7 M FREEBOARD</b>				
<b>7</b>	<b>EQUALIZATION TANK</b>			
	AVERAGE DESIGN FLOW	208.33	CUM/HR	
	HYDRAULIC RETENTION TIME	3.0	HOURS	
	VOLUME OF THE TANK	625.00	CUM	
	ASSUMED DEPTH OF LIQUID COLUMN (SWD)	4.0	M	
	AREA REQUIRED FOR THE EQUALIZATION TANK	156.25	SQ.M	
	NO. OF TANKS PROPOSED	1		
	AREA REQUIRED FOR EACH EQUALIZATION TANK	156.25	SQ.M	
		14.11		
	PROPOSE A CIRCULAR TANK			
	DIAMETER OF THE TANK	14.11	M	
	SAY	14.50	M	
	ACTUAL CAPACITY PROVIDED	660.19	CUM	
<b>CHECK FOR CAPACITY</b>				
MAXIMUM PEAK HOURS = 2 HOURS 2HRS PEAK FLOW = 2x520.83 =1041.66				
HAS 2HRS AVERAGE CAPACITY = 2x208.33 =416.66				
REQUIRED STORAGE = 625.00 M <sup>3</sup>				
ACTUAL STORAGE PROVIDED = 660.19>625M <sup>3</sup> HENCE OK				
<b>PROVIDE THE DIMENSION OF EQUALIZATION TANK DIAMETER AS 14.5 M \$ X 4 M SWD + 0.5 M FREEBOARD</b>				
<b>7.1</b>	<b>MIXING EQUIPMENT</b>			

	NO . OF TANKS	1.00		
	CAPACITY OF TANK	660.2	CUM	
	MIXING RATE	0.60	CUM/HR	
	CAPACITY OF MIXER	396.1	CUM/HR	
	MIXING RATE	0.004	KW/M <sup>3</sup>	
	CAPACITY OF MIXER	2.64	Kw	
		3.54	HP	
	SAY	4.00	HP	
<b>PROVIDE THE MIXING EQUIPMENT OF SIZE 4 HP OF MIXING CAPACITY 0.6CUM/HR</b>				
<b>7.2</b>	<b>SEWAGE PUMP PUMPING TO MBBR</b>			
	NO. OF PUMPS	3		(2W+1S)
	TYPE OF PUMPS - SUBMERSIBLE SEWAGE TRANSFER /HORIZONTAL CENTRIFUGAL- NON CLOG)			
	AVERAGE FLOW	5000.00	CUM/DAY	
	PEAK DESIGN FLOW	12500.00	CUM/DAY	
	NUMBER OF WORKING HOURS	20	HRS	
	FLOW CAPACITY OF EACH PUMP REQUIRED	312.50	CUM/HR	
	PROPOSED PUMPS 2NUMBERS (1W + 1SB), FLOW PER PUMP	312.50	CUM/HR	
		86.81	LPS	
		0.087	CUM/SEC	
	HEAD REQUIRED	10.00	M	
	EFFICIENCY	50	%	
	HP REQUIRED FOR PUMP	22.71	HP	$(Q*H*9.81*0.75)/0.5$
	PROVIDE PUMPS OF CAPACITY	25	HP	

<b>PROVIDE 3NOS OF SUBMERSIBLE NC-SH HORIZONTAL CENTRIFUGAL PUMPS OF 25HP WITH</b> <b>A DISCHARGE OF 312.50CUM/HR</b>				
<b>8</b>	<b>MOVING BED BIO REACTOR (MBBR)</b>			
	AVERAGE DESIGN FLOW	5000.00	CUM/DAY	
	NO.OF STREAMS	1.00		
	BOD OF INCOMING SEWAGE	250.00	MG/L	
	TSS OF INCOMING SEWAGE	400.00	MG/L	
	BOD REQUIRED AFTER TREATMENT	10	MG/L	
	BOD TO BE REMOVED	240	MG/L	
	NO. OF TANKS PROPOSED	2		
<b>PROCESS CALCULATION</b>				
	BOD LOADING RATE	3.50	KG/CUM/DAY	4-7 KG/CUM/DAY AS PER PAGE 955, M&E
	QUANTITY OF BOD REMOVED PER DAY	1200.00	KG/DAY	
	VOLUME OF REACTOR REQUIRED	342.857	CUM	
	VOLUME OF MEDIA REQUIRED	40.00	%	
	MEDIA VOLUME REQUIRED	137.14	CUM	
	VOLUME OF TANK REQUIRED	479.997 SAY 480.00	CUM	
	CONSIDERING 1 STREAMS, 2 TANKS			
	VOLUME OF EACH TANK	240.00	CUM	

	ASSUMED LIQUID DEPTH (SWD)	4.00	M	
	AREA OF EACH TANK	60.00		
	PROPOSE A CIRCULAR TANK			
	DIAMETER OF THE TANK	8.80	M	
	SAY	9.00	M	
	ACTUAL CAPACITY PROVIDED	254.34	CUM	
<b>PROVIDE THE DIMENSION OF MOVING BED BIO REACTOR (MBBR) DIA AS 9 M \$ X 4 M SWD + 0.5 M FREEBOARD</b>				
PROVIDE INTER CONNECTION PIPE = 200MM DIA DI K9				
<b>9</b>	<b>AIR BLOWERS</b>			
<b>9.1</b>	<b>FOR MBBR TANK</b>			
	ASSUMED BOD REDUCTION IN THE MBBR TANK	95%	PERCENT	
	INCOMING BOD OF RAW SEWAGE	250.00	MG/L	
	BOD TO BE REDUCED	237.50 SAY 240	MG/L	
	BOD LOAD	1200.0	KG/DAY	
	OXYGEN REQUIRED TO REMOVE BOD LOAD	1.2	KG/KG OF BOD	
	OXYGEN REQUIRED	1440.0	KG/DAY	
	WEIGHT OF O2 IN 1KG OF AIR	0.232		STANDARD
	DENSITY OF AIR	1.201		STANDARD
	OXYGEN TRANSFER EFFICIENCY	0.170		15 TO 30 % FOR FINE BUBBLE DIFFUSER

	OXYGEN REQUIRED PER DAY	29133.94	CUM/DAY	
		1213.91	CUM/HR	
	AIR REQUIRED	<b>1213.91</b>	<b>CUM/HR</b>	
	SAFETY FACTOR	25.00	%	
		303.48	CUM/HR	
	ADD 20% FOR ANOXIC EQUALISATION TANK , SLUDGE TANK ETC	242.78	CUM/HR	
	<b>ACTUAL AIR REQUIREMENT</b>	<b>1760.18</b>	<b>CUM/HR</b>	
	NO.OF BLOWERS WORKING	1.00		
	AIR REQUIRED PER BLOWER	1760.18	CUM/HR	
	ICUM/HR	0.59	CFM	
	AIR REQUIRED IN CFM	1038.50	CFM	
	PRESSURE	8.82	PSI	(0.6KG/SQCM)
	VOLUMETRIC EFFICIENCY	0.65	%	
	POWER REQUIREMENT FOR BLOWER	61.44	HP	(0.00436*CFM* PSI)/EFF
		45.83	KW	
	SAY	50.00	Kw	
<b>PROVIDE 3NOS (2W+1S) OF AIR BLOWERS OF 25KW WITH A DISCHARGE OF !800CUM/HR</b>				
<b>10 SECONDARY CLARIFIER</b>				
	NO.OF STREAM	1	NOS	
	NO.OF TANKS	1	NOS	
	AVERAGE FLOW	208	CUM/HR	
	RETENTION PERIOD	2.5	HRS	
	VOLUME OF TANK REQUIRED	520.8	CUM	
	VOLUME OF EACH TANK	520.8	CUM	
	ASSUMED DEPTH	3.5	M	

	AREA OF EACH TANK	148.81	SQM	
	PROPOSE A CIRCULAR TANK			
	DIAMETER OF THE TANK	13.77	M	
	SAY	14.00	M	
	ACTUAL CAPACITY PROVIDED	538.51	CUM	
<b>PROVIDE THE DIMENSION OF 1 NO SECONDARY CLARIFIER DIA AS 14 M \$ X 3.5 M SWD + 0.5 M FREEBOARD</b>				
<b>INFLUENT PIPE</b>				
	VELOCITY OF AVERAGE FLOW	1.0	M/SEC	
	AREA	0.145	SQM	
	INNER DIA OF FEED PIPE	0.43	M	
	SAY	450.00	MM	
<b>11</b>	<b>SLUDGE SUMP</b>			
	<b>SLUDGE GENERATED</b>			
	AVERAGE FLOW	5000.00	CUM/DAY	
	TSS	400.00	MG/L	
	BOD	250.00	MG/L	
	ASSUMED TSS SLUDGE	30	%	
	ASSUMED BOD SLUDGE	35	%	
	SLUDGE GENERATED - TSS	600.00	KG/DAY	(AVERAGE FLOW X 30% OF TSS)
	SLUDGE GENERATED - BOD	437.50	KG/DAY	(AVERAGE FLOW X 35% OF BOD)
	TOTAL SLUDGE	1037.50	KG/DAY	
	% OF SLUDGE WITH 1.02 SPECIFIC GRAVITY	1.00	%	

	SLUDGE VOLUME PER DAY	101.72	CUM/DAY	(TOTAL SLUDGE X 10%)/1.02
		4.24	CUM/HR	
<b>SLUDGE SUMP</b>				
	ASSUMED HYDRAULIC RETENTION TIME	5.00	HR	
	VOLUME OF TANK	421.20	CUM	
	ASSUMED SIDE WATER DEPTH	2.00	M	
	AREA OF THE TANK	10.60	SQM	
<b>PROPOSE A CIRCULAR TANK</b>				
	DIAMETER OF THE TANK	3.67	M	
	SAY	3.75	M	
	ACTUAL CAPACITY PROVIDED	22.88	CUM	
<b>PROVIDE THE DIMENSION OF 1 NO TOTAL SLUDGE DIA AS 3.75M \$ X 2 M SWD + 0.5 M FREEBOARD</b>				
<b>12</b>	<b>THICKENER FEED PUMP</b>			
	<b>GENERAL</b>			
A	APPLICATION	SLUDGE TRANSFER TO THICKENER		
B	SPECIFIC GRAVITY	1.03		(1W+1SB)
C	TYPE	NON CLOG SUBMERSIBLE		
D	QUANTITY	2.00	(1W+1S)	
<b>DESIGN DATA</b>				
A	PUMP WORKING HOURS	10.00	HRS	(3 TO 4 STAGES)
B	CAPACITY OF PUMP REQUIRED	10.17	CUM/HR	
		0.00283	CUM/SEC	
C	HEAD REQUIRED	15.00	M	



D	MAX SOLID SIZE PERMISSIBLE	40.00	MM	
E	EFFICIENCY	50	%	
F	HP REQUIRED FOR PUMP	1.109	HP	
G	RECOMMENDED SIZE	1.250	HP	
H	BKW AT DUTY POINT	0.933	KW	
	<b>MATERIAL OF CONSTRUCTION</b>	20.00		
A	CASING	2% NI - CI		
B	IMPELLER SEMI OPEN	CF-8M		
C	ROTOR SHAFT	SS-410		
D	FASTENERS IN LIQUID	SS-410		
E	MOTOR HOUSING	CI IS 210 GR. FG 260		
	<b>MOTORS :</b>	20.00		
A	<sup>T</sup> Y <sup>P</sup> E	SUBMERSIBLE		
B	RPM	1450		
C	FREQUENCY	50 ± 3% HZ		
D	VOLTAGE	415 + 6% - 10%		
E	INSULATION	CLASS - F		
F	ENCLOSURE	IP - 68		
F	QUANTITY	1 NO OF EACH PUMP		
G	KW	1.000		
	RECOMMENDED DELIVERY LINE	100.00	MM	
<b>PROVIDE 2NOS (1W+1S) OF THICKENER FEED PUMP OF 1.25HP WITH A DISCHARGE OF 10.5CUM/HR</b>				

<b>13</b>	<b>SLUDGE THICKENER (GRAVITY TYPE)</b>			
	NO OF UNITS	1.00		
	TOTAL SLUDGE	1037.50	KG/DAY	
	SOLIDS LOADING RATE	40.00	KG/SQM/DAY	
	THICKENING AREA REQUIRED	25.94	SQM	TOTAL SLUDGE/SLR
	SURFACE LOADING RATE	12	CUM/SQM/DAY	
	SLUDGE VOLUME PER DAY/SLR	8.48	M <sup>3</sup>	
	MAX AREA TAKEN	25.94	SQM	
	AREA OF DISTRIBUTION CHAMBER	10.00	%	
	TOTAL AREA REQUIRED	28.53	SQM	
	PROPOSE A CIRCULAR TANK			
	DIAMETER OF THE TANK	6.03	M	
	SAY	6.20	M	
	THICKENER AREA AVAILABLE	30.18	SQM	
	SIDE WATER DEPTH (SWD)	3.00	M	
	ACTUAL VOLUME PROVIDED	90.53	CUM	
	THICKENED SLUDGE CONSISTENCY	3.00	%	
	THICKENED SLUDGE VOLUME	31.13	CUM/DAY	3% OF TOTAL SLUDGE
<b>PROVIDE THE DIMENSION OF 1No SLUDGE THICKENER (GRAVITY TYPE) DIA AS 6.2 M</b>				
<b>\$ X 3 M SWD + 0.5 M FREEBOARD</b>				

<b>THICKENED SLUDGE PUMP</b>				
	<b>INLET PIPE DIAMETER</b>			
	FLOW	10.1716	CUM/HR	
		0.0028	CUM/SEC	
	VELOCITY	1.00	M/SEC	
	PIPE AREA REQUIRED	0.0028	SQM	
	PIPE DIA	0.0600	M	
	SAY	100	MM	
	<b>THICKENER MECHANISM</b>			
	TYP <sup>E</sup>	CENTRAL DRIVE TYP <sup>E</sup>		
	<b>MATERIAL OF CONSTRUCTION</b>			
A	SECTIONS	MS SECTIONS AS PER IS - 226		
B	WALKWAY	5MM CHEQUERED PLATES		
<b>14</b>	<b>FILTER PRESS / CENTRIFUGE FEED PUMP</b>			
	TYP <sup>E</sup>	SCREW PUMP		
	NO. OF PUMPS	2	NOS	(1W+1S)
	NO OF WORKING PUMP	1	NOS	
	VOLUME TO BE PUMPED	31.13	CUM/DAY	
	CENTRIFUGE WORKING HOURS	8.00	HRS	
	CAPACITY REQUIRED IN PUMP	3.89	CUM/HR	
	CAPACITY PROVIDED	4.00	CUM/HR	
		0.0011	CUM/SEC	
	HEAD	15.00	M	
	EFFICIENCY	50	%	

	HP REQUIRED FOR PUMP	0.444	HP	
	SAY	1.0	HP	
	LOAD	0.746	KW	
	RECOMMENDED DELIVERY PIPE	150	MM	
<b>PROVIDE 2NOS (1W+1S) OF CENTRIFUGE/FILTER PRESS FEED PUM OF 1.0HP WITH A DISCHARGE OF 4.0CUM/HR</b>				
<b>15</b>	<b>SLUDGE CENTRIFUGE</b>			
	SLUDGE FLOW RATE TO CENTRIFUGE			
	NO OF CENTRIFUGES	2.00	(1W + 1S)	
	CAPACITY OF CENTRIFUGE	0.84	CUM/HR	
	<b>POLY ELECTROLYTE DOSING FOR CENTRIFUGE &amp; THICKENER</b>	10.00	%	
	<b>A DOSING TANKS</b>			
	SLUDGE VOLUME	1037.50	KG/DAY	
	DOSE	2.00	KG/1000KG	
	QUANTITY OF POLY ELECTROLYTE	2.08	KG/DAY	
	CONCENTRATION	0.10		
	VOLUME OF TANKS @ 24HR	2.08	CUM	
		2080.00	LITRES	
	VOLUME	86.67	LIT/HR	
	VOLUME REQUIRED FOR 8HRS	0.69	CUM	
	LIQUID DEPTH OF TANK	1.50	M	
	AREA REQUIRED	0.46	SQM	
	PROPOSE A SQUARE TANK			
	LENGTH = BREADTH	0.68	M	

	SAY	0.75	M	
<b>PROVIDE THE DIMENSIONS OF DOSING TANKS AS 0.75 M X 0.75 M X 1.5 M SWD + 0.5 M FREEBOARD</b>				
<b>B</b>	<b>DOSING PUMPS</b>			
	NO OF DOSING PUMPS	2.00	(1W + 1S)	
	REQUIRED CAPACITY OF DOSING PUMPS	86.67	LIT/HR	
	PROVIDED VOLUME OF TANK	0.84	CUM	
	VELOCITY GRADIENT	300.00	S <sup>A</sup> -1	
	CONSTANT AT 200CC WATER TEMPERATURE	0.001139		
<b>16</b>	<b>CHLORINE CONTACT TANK (CCT)</b>			
	TYPE	SQUARE		
	HYDRAULIC RETENTION TIME	30.00	MINUTES	
	AVERAGE FLOW	208.33	CUM/HR	
	VOLUME OF THE TANK	104.17	CUM	
	ASSUMED LIQUID DEPTH	3.00	M	
	AREA OF THE TANK	34.72	SQ.M	
	PROPOSE A SQUARE TANK			
	LENGTH = BREADTH	5.89	M	
	SAY	6.00	M	
<b>PROVIDE THE DIMENSIONS OF SLUDGE FLOW RATE TO CENTRIFUGE AS 6 M X 6 M X 3 M SWD + 0.5 M FREEBOARD</b>				
<b>17</b>	<b>GAS CHLORINATOR</b>			
	DOSING RATE			
	CHLORINE MIXING			

	AVERAGE FLOW	5000.00	CUM/DAY	
	CHLORINE DOSING RATE	2	MG/L	
	CAPACITY OF GAS CHLORINATOR REQUIRED	0.42	KG/HR	SAY 0.5KG/HR
	NO OF DOSING PUMPS	2	(1W+1S)	
	TYP <sup>E</sup>	VACUUM FEED TYPE		
		FLOW PROPORTIONAL DOSAGE		
	DAILY REQUIREMENT	10.00	KG	
	MONTHLY REQUIREMENT	300.00	KG	
<b>18</b>	<b>PRESSURE SAND FILTER</b>			
	AVERAGE FLOW	5000.00	CUM/DAY	
	FILTER OPERATING HOURS	20.00	HRS	
	OPERATING FLOW	250.00	CUM/HR	
	FILTER LOADING RATE	12.00	CUM/HR/SQ.M	
	AREA OF THE FILTER REQUIRED	20.83	SQ.M	
	NO.OF FILTERS	3.00		
	AREA OF EACH FILTER	6.94	SQ.M	
	DIAMETER OF THE FILTER REQUIRED	3.00	M	
	HEIGHT OF THE FILTER	2.50	M	
	OPERATING PRESSURE	3.50	BAR	
	TEST PRESSURE	5.25	BAR	
	FILTER MEDIA	SAND & ANTRACITE (DUAL MEDIA)		
<b>PROVIDE THE DIMENSION OF 3NOS OF PRESSURE SAND FILTER AS 3 M X DIAMETER WITH 2.5M SHELL HEIGHT</b>				
<b>19</b>	<b>ACTIVATED CARBON FILTER</b>			
	AVERAGE FLOW	5000.00	CUM/DAY	
	FILTER OPERATING HOURS	20.00	HRS	

	OPERATING FLOW	250.00	CUM/HR	
	FILTER LOADING RATE	10.00	CUM/HR/SQ.M	
	AREA OF THE FILTER REQUIRED	25.00	SQ.M	
	NO. OF FILTERS	3.00		
	AREA OF EACH FILTER	8.33	SQ.M	
	DIAMETER OF THE FILTER REQUIRED	3.00	M	
	HEIGHT OF THE FILTER	2.50	M	
	OPERATING PRESSURE	3.50	BAR	
	TEST PRESSURE	5.25	BAR	
	FILTER MEDIA	ACTIVATED CARBON		
<b>PROVIDE THE DIMENSION OF 3NOS OF ACTIVATED CARBON FILTER AS 3 M X DIAMETER WITH 2.5 M SHELL HEIGHT</b>				
<b>20 FILTER FEED PUMPS</b>				
	PROVIDE FILTER FEED PUMPS OF CAPACITY	250.00	CUM/HR	
	CAPACITY OF PUMP REQUIRED	69.44	LPS	
		0.0694	CUM/SEC	
	HEAD	30.00	M	
	EFFICIENCY	50	%	
	HP REQUIRED FOR PUMP	55.556	HP	$(Q \cdot H \cdot 9.81 \cdot 0.75) / 0.5$
	SAY	60.0	HP	
	POWER REQUIREMENT FOR THE PUMP	44.76	Kw	
<b>PROVIDE 2NOS (1W+1S) OF FILTER FEED PUMP OF 56HP WITH A DISCHARGE OF 250CUM/HR</b>				
<b>21 TREATED WATER TANK</b>				

	HYDRAULIC RETENTION TIME (HRT)	60.00	MINUTES	
	AVERAGE FLOW	208.33	CUM/HR	
	VOLUME OF THE TANK	208.33	CUM	
	ASSUMED LIQUID DEPTH	3.00	M	
	AREA OF THE TANK	69.44	SQ.M	
	NO . OF TANKS	2.00	NOS	
	AREA OF SINGLE TANK	34.72		
	PROPOSE A SQUARE TANK			
	LENGTH = BREADTH	5.89	M	
	SAY	6.00	M	
	<b>PROVIDE FILTER FEED PUMPS OF</b>	<b>CAPACITY AS 6M X 6 M X 3M SWD + 0.5 M FREEBOARD</b>		
<b>22</b>	<b>EFFLUENT CHANNEL</b>			
	PEAK FLOW	0.145	CUM/SEC	
	AVERAGE FLOW	0.06	CUM/SEC	
	VELOCITY	1.00	M/SEC	
	AREA AT PEAK FLOW	0.14	SQ.M	
	AREA AT AVERAGE FLOW	0.06	SQ.M	
	ASSUME WIDTH OF CHANNEL	0.60	M	
	DEPTH OF CHANNEL REQUIRED	0.24	M	
	FREE BOARD	0.50	M	
	TOTAL DEPTH	0.74		
	SAY	1.00	M	
	PROVIDE EFFLUENT CHANNEL FOR ULTIMATE CAPACITY	<b>PROVIDE 0.6 X 1.0M CHANNEL</b>		
<b>23</b>	<b>CHECK FOR HYDRAULIC SLOPE</b>			



A	HYDRUALIC RADIUS AT PEAK FLOW, R	0.13	M	AREA/WETTED PERIMETER
	VELOCITY	1.00	M/SEC	
	MANNINGS CO-EFFICIENT, N	0.013		
	MANNINGS FORMULA	$V = \frac{1}{N} * R^{2/3} * S^{1/2}$		
	HENCE SLOPE, S	0.0025	M	
	HENCE FALL IN 50M	0.13	M	
<b>24</b>	<b>DESIGN OF CENTRATE SUMP</b>			
	CENTRATE VOLUME	101.72-7.78= 93.94	M <sup>3</sup>	
	SWD	2.5	M	
	AREA	37.57	M <sup>2</sup>	
	HRT	12	HRS	
<b>PROVIDE CENTRATE SUMP OF DIMENSION AS 5M X 4M X 2.5M SWD + 0.5 M FREEBOARD</b>				

## **Chapter 6**

### **CO-TREATMENT OF FEACAL SLUDGE AND SEPTAGE WITH SEWAGE**

In Kerala, and specifically in Thiruvalla Municipality, latrines connected to septic tanks and pit latrines predominate in urban households. When these septic tanks/pits were full, they were desludged and the faecal Sludge was disposed-off unsafely in water bodies, or on vacant lands. Co-treatment is a process where Sewage Treatment Plant (STP), in addition to treating the domestic sewage transported through sewers, also treats faecal sludge and septage (FSS) emptied from various Onsite Sanitation Systems (OSS) in the Municipality. The need for this facility has arisen to ensure an efficient and appropriate co-treatment of faecal sludge septage (FSS) with sewage, so that the functionality of existing STP is not compromised. Setting up of a dedicated faecal sludge treatment plant (FSTP) is a time-consuming affair due to issues such as land identification, clearances and tendering process. Further, in case of co treatment, the existing facilities, site infrastructure and human resource of the STP will be used for co-treatment and thus can eliminate the problem of engaging a new O&M operator and additional cost related to site infrastructure. Co-treatment will provide access to improved sanitation to households, low income settlements, commercial and institutional establishments of the targeted areas where sewer connections are not feasible or it may take some time to provide the designed service. Thus, the co-treatment method will restrict the indiscriminate discharge of highly contaminated faecal sludge into holy rivers and surrounding environment of the city. Coexistence of Sewerage system with FSSM or until the city is fully covered with sewerage system, in both ways; FSSM through co-treatment is a viable solution. The proposed facility is designed based on the expected faecal sludge quantity generated in the nonsewer areas i.e. 40KLD of FSS. From the planning perspective, FSS should be disposed into STPs in the off season of the Sabarimala pilgrims. During this period the off season sewerage flow reduced considerably and the smooth running of the STP to be managed by Co-treatment of faecal sludge and septage with sewage. Additional land for co treatment in the STP premise will be used for erecting Co treatment facility. Land for the development of the scheme should be arranged by the local body administration and necessary social awareness as well as environment assessment is also need to be organized.

Design Population	66000
Sludge deposit coefficient	100 liters/person/year
Peak design flow	$(66000*100*1.5)/250= 39.6 \text{ KLD}= 40 \text{ KLD}$

## **CHAPTER 7**

### **OPERATION & MAINATANANCE COST**

O & M Charge for STP (10 years including centage and GST)	Rs 10,97,50,746 crores
O & M Charge for Sewer network and allied works (10 years including centage and GST)	Rs 13,07,14,997 crores
Total	Rs 24,04,65,743 crores

## **Chapter 8**

### **CONCLUSION**

It is quite evident that lack of a scientifically built sewerage system in the area causes poor sanitation, pollution of water bodies, unhygienic environment and much more difficulties as well as threats to the society. The septic tank, pit latrine and other means of existing practice is to be replaced with a better sanitation system for the houses in the area. A well-planned sewerage network is essential in the municipal town. The extent of area covered is 5 square kilometers having a population of 6600 (as per census 2011). The projected population including floating population in the year 2054 is 33000 and as the trend of population growth of Thiruvalla Municipality shows decreasing, state average growth from the present load can be used for the next 30 years. Considering the per capita water usage as 150lpcd, UFW and non-domestic consumption, total water usage is calculated as 5.7 MLD. Taking 80% of water consumption as sewerage produced, the total sewerage load is arrived as 5 MLD. The project includes laying of sewerage network of 28621 m, pumping main of 5187 m. The domestic sewage is collected by gravity through various underground pipes of diameter 200 mm to 400mm HDPE PN10 and collected in 3 collection wells. The network area of the project will cover an area of 5 km<sup>2</sup> in Thiruvalla Municipality and the benefitted population is 33000. In this project sewer network of 28621m of 200 mm, 250mm, 315mm and 400 mm HDPE PN 10 pipe and man holes of diameters 1200mm,1500mm,1800mm and 2250 mm of 1279, 26, 3, 29 numbers and 5800m of pumping main are included. Coexistence of Sewerage system with FSSM or until the city is fully covered with sewerage system, in both ways; FSSM through co-treatment is a viable solution. The proposed facility is designed based on the expected fecal sludge quantity generated in the non-sewer areas i.e. 40KLD of FSS. From the planning perspective, FSS should be disposed into STPs in the off season of the Sabarimala pilgrims. During this period the off season sewerage flow reduced considerably and the smooth running of the STP to be managed by Co-treatment of fecal sludge and septage with sewage. Additional land for co treatment in the STP premise will be used for erecting Co treatment facility. Land for the development of the scheme should be arranged by the local body administration and necessary social awareness as well as environment assessment is also need to be organized. The total cost of project comes to Rs.128.778 crores

On completion of the proposed work approximately 1000 numbers of sewer connections to the households and more than 10numbers to multi storied apartments can be provided and thereby revenue in terms of centage of water charge can be realized. The one-time connection charge will also boost the revenue of KWA.

**ANNEXURE-2**

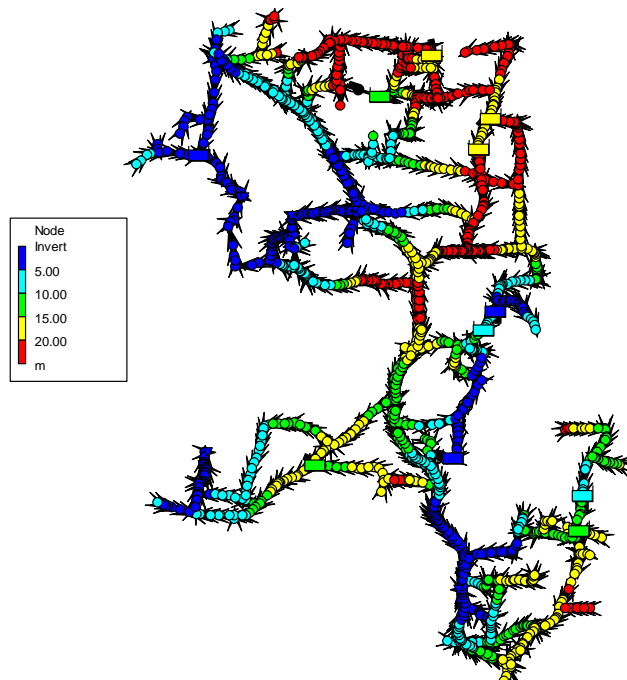
**LIST OF FLATS IN THE PROJECT AREA**

Sl.No.	Name of Flat	No. of Units
1	Silver Castle	33
2	Skyline	66
3	Btech Builders	60
4	Btech Builders 2	60
5	Btech Builders 3	60
6	Bennit Gardens	60
7	Noel Buildings	60
8	Multistoried Building 1	40
9	Multistoried Building 2	40
10	Multistoried Building 3	40

### ANNEXURE-3

## DESIGN USING SWMM SOFTWARE - OUTPUTS

11/05/2021 00:15:00



EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.015)

-----

\*\*\*\*\*

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

\*\*\*\*\*

\*\*\*\*\*

#### Analysis Options

\*\*\*\*\*

Flow Units ..... LPS

Process Models:

Rainfall/Runoff ..... NO

RDII ..... NO

Snowmelt ..... NO

Groundwater ..... NO

Flow Routing ..... YES

Ponding Allowed ..... NO

Water Quality ..... NO

Flow Routing Method ..... DYNWAVE

Surcharge Method ..... EXTRAN

Starting Date ..... 11/05/2021 00:00:00

Ending Date ..... 11/05/2021 23:59:00

Antecedent Dry Days ..... 0.0

Report Time Step ..... 00:15:00

Routing Time Step ..... 30.00 sec

Variable Time Step ..... YES

Maximum Trials ..... 8  
 Number of Threads ..... 1  
 Head Tolerance ..... 0.001500 m

```

*****
Flow Routing Continuity      Volume      Volume
                             hectare-m   10^6 ltr
*****
Dry Weather Inflow .....    0.584     5.836
Wet Weather Inflow .....    0.000     0.000
Groundwater Inflow .....    0.000     0.000
RDII Inflow .....          0.000     0.000
External Inflow .....       0.000     0.000
External Outflow .....      0.503     5.029
Flooding Loss .....         0.070     0.701
Evaporation Loss .....      0.000     0.000
Exfiltration Loss .....     0.000     0.000
Initial Stored Volume ....   0.000     0.000
Final Stored Volume .....   0.003     0.034
Continuity Error (%) .....   1.233
    
```

\*\*\*\*\*

Highest Continuity Errors

\*\*\*\*\*

- Node 244 (8.97%)
- Node 319 (6.70%)
- Node 5222 (3.78%)
- Node 3153 (3.60%)
- Node 323 (3.47%)

\*\*\*\*\*

Time-Step Critical Elements

\*\*\*\*\*

- Link p3235 (97.74%)

\*\*\*\*\*

Highest Flow Instability Indexes

\*\*\*\*\*

All links are stable.

\*\*\*\*\*

Routing Time Step Summary

\*\*\*\*\*

Minimum Time Step : 0.83 sec  
 Average Time Step : 2.09 sec  
 Maximum Time Step : 30.00 sec  
 Percent in Steady State : -0.00  
 Average Iterations per Step : 2.00  
 Percent Not Converging : 0.01

Time Step Frequencies :  
 30.000 - 13.228 sec : 0.01 %  
 13.228 - 5.833 sec : 0.02 %  
 5.833 - 2.572 sec : 5.68 %  
 2.572 - 1.134 sec : 94.29 %  
 1.134 - 0.500 sec : 0.00 %

\*\*\*\*\*  
 Node Depth Summary  
 \*\*\*\*\*

-----						
	Average	Maximum	Maximum	Time of Max	Reported	
Node	Type	Depth	Depth	HGL	Occurrence	Max Depth
		Meters	Meters	Meters	days hr:min	Meters
-----						
100	JUNCTION	0.10	0.13	2.43	0 07:37	0.13
1000	JUNCTION	0.08	0.10	9.40	0 19:31	0.10
1001	JUNCTION	0.08	0.10	9.50	0 07:33	0.10
1002	JUNCTION	0.08	0.09	12.79	0 19:28	0.09
1003	JUNCTION	0.08	0.09	12.89	0 07:27	0.09
101	JUNCTION	0.10	0.13	2.53	0 07:36	0.13
1011	JUNCTION	0.05	0.05	29.14	0 07:18	0.05
1012	JUNCTION	0.05	0.05	17.34	0 07:21	0.05
1016	JUNCTION	0.06	0.06	15.61	0 19:19	0.06
1017	JUNCTION	0.05	0.06	14.88	0 07:20	0.06
1018	JUNCTION	0.05	0.06	12.96	0 07:19	0.06
1019	JUNCTION	0.05	0.06	11.09	0 19:21	0.06
102	JUNCTION	0.10	0.13	2.83	0 19:40	0.13
1020	JUNCTION	0.05	0.06	7.84	0 19:21	0.06
1021	JUNCTION	0.08	0.09	4.39	0 07:59	0.09
1024	JUNCTION	0.06	0.07	8.98	0 20:00	0.07
1025	JUNCTION	0.06	0.07	8.80	0 20:00	0.07
1026	JUNCTION	0.06	0.07	8.21	0 20:00	0.07

1027	JUNCTION	0.06	0.06	8.00	0 20:00	0.06
1028	JUNCTION	0.02	0.02	7.72	0 20:00	0.02
1029	JUNCTION	0.07	0.08	7.58	0 19:56	0.08
103	JUNCTION	0.10	0.13	3.03	0 07:35	0.13
1034	JUNCTION	0.07	0.07	16.41	0 19:53	0.07
1035	JUNCTION	0.01	0.01	18.14	0 19:09	0.01
1036	JUNCTION	0.06	0.07	18.66	0 07:09	0.07
1037	JUNCTION	0.06	0.06	18.47	0 19:09	0.06
1038	JUNCTION	0.06	0.07	17.30	0 07:26	0.07
1039	JUNCTION	0.06	0.06	16.46	0 07:28	0.06
104	JUNCTION	0.10	0.12	3.22	0 07:34	0.12
1040	JUNCTION	0.07	0.07	13.52	0 07:29	0.07
1041	JUNCTION	0.07	0.08	13.28	0 07:48	0.08
1042	JUNCTION	0.07	0.08	13.18	0 08:00	0.08
105	JUNCTION	0.10	0.13	3.43	0 07:34	0.13
1188	JUNCTION	0.09	0.11	18.52	0 07:51	0.11
1190	JUNCTION	0.09	0.11	14.18	0 07:45	0.11
1191	JUNCTION	0.08	0.10	14.75	0 07:43	0.10
1192	JUNCTION	0.07	0.08	16.97	0 07:46	0.08
1193	JUNCTION	0.07	0.08	17.49	0 07:44	0.08
1194	JUNCTION	0.07	0.08	18.08	0 07:44	0.08
1195	JUNCTION	0.06	0.07	18.50	0 07:46	0.07
1196	JUNCTION	0.07	0.08	18.63	0 07:43	0.08
1197	JUNCTION	0.06	0.07	18.92	0 07:24	0.07
1198	JUNCTION	0.06	0.06	19.08	0 07:23	0.06
1199	JUNCTION	0.06	0.06	19.45	0 07:21	0.06
122	JUNCTION	0.07	0.08	20.18	0 07:45	0.08
123	JUNCTION	0.06	0.07	20.62	0 19:37	0.07
124	JUNCTION	0.06	0.07	20.72	0 07:41	0.07
125	JUNCTION	0.06	0.07	20.87	0 07:33	0.07
1252	JUNCTION	0.09	0.12	6.62	0 07:54	0.12
1253	JUNCTION	0.06	0.06	8.45	0 07:16	0.06
1254	JUNCTION	0.06	0.07	10.19	0 19:18	0.07
1255	JUNCTION	0.06	0.06	17.09	0 07:14	0.06
1256	JUNCTION	0.06	0.06	20.32	0 07:17	0.06



*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

1257	JUNCTION	0.05	0.06	20.73	0 07:09	0.06	158	JUNCTION	0.06	0.07	6.74	0 07:56	0.07
1258	JUNCTION	0.06	0.06	19.34	0 07:21	0.06	159	JUNCTION	0.06	0.06	6.66	0 19:48	0.06
126	JUNCTION	0.06	0.06	21.07	0 07:36	0.06	160	JUNCTION	0.06	0.07	6.37	0 19:47	0.07
127	JUNCTION	0.05	0.06	21.47	0 07:34	0.06	161	JUNCTION	0.06	0.06	6.24	0 07:24	0.06
128	JUNCTION	0.05	0.06	21.96	0 07:16	0.06	162	JUNCTION	0.06	0.07	6.17	0 07:20	0.07
129	JUNCTION	0.05	0.06	22.16	0 07:21	0.06	163	JUNCTION	0.06	0.07	5.97	0 19:26	0.07
130	JUNCTION	0.05	0.06	22.29	0 07:29	0.06	164	JUNCTION	0.06	0.07	5.72	0 07:26	0.07
131	JUNCTION	0.05	0.05	22.66	0 07:28	0.05	165	JUNCTION	0.06	0.07	5.57	0 19:27	0.07
132	JUNCTION	0.05	0.05	23.44	0 07:22	0.05	1650	JUNCTION	0.06	0.07	16.07	0 19:30	0.07
133	JUNCTION	0.05	0.05	23.34	0 07:33	0.05	1651	JUNCTION	0.06	0.06	16.87	0 07:33	0.06
134	JUNCTION	0.05	0.05	23.05	0 19:33	0.05	1652	JUNCTION	0.05	0.06	17.39	0 07:32	0.06
135	JUNCTION	0.05	0.06	22.17	0 19:33	0.06	1653	JUNCTION	0.05	0.06	17.87	0 07:32	0.06
136	JUNCTION	0.05	0.06	21.61	0 07:40	0.06	1654	JUNCTION	0.05	0.05	18.19	0 07:27	0.05
137	JUNCTION	0.05	0.06	21.11	0 07:42	0.06	166	JUNCTION	0.06	0.06	5.48	0 07:27	0.06
138	JUNCTION	0.05	0.06	20.62	0 07:40	0.06	167	JUNCTION	0.06	0.07	4.89	0 07:30	0.07
139	JUNCTION	0.05	0.06	18.95	0 07:48	0.06	168	JUNCTION	0.06	0.06	4.55	0 19:31	0.06
140	JUNCTION	0.05	0.06	18.55	0 19:53	0.06	169	JUNCTION	0.06	0.07	4.27	0 07:35	0.07
141	JUNCTION	0.05	0.06	16.82	0 07:58	0.06	170	JUNCTION	0.06	0.07	4.07	0 07:36	0.07
142	JUNCTION	0.05	0.06	15.23	0 07:52	0.06	171	JUNCTION	0.06	0.06	3.86	0 07:37	0.06
143	JUNCTION	0.05	0.06	13.47	0 07:46	0.06	172	JUNCTION	0.06	0.06	3.66	0 07:37	0.06
144	JUNCTION	0.05	0.06	12.30	0 07:46	0.06	173	JUNCTION	0.06	0.07	3.57	0 07:37	0.07
145	JUNCTION	0.05	0.06	11.57	0 07:44	0.06	1736	JUNCTION	0.07	0.08	5.88	0 19:56	0.08
146	JUNCTION	0.06	0.06	10.04	0 07:34	0.06	1737	JUNCTION	0.05	0.06	6.06	0 07:46	0.06
147	JUNCTION	0.06	0.06	9.41	0 07:56	0.06	1738	JUNCTION	0.05	0.05	6.31	0 07:33	0.05
148	JUNCTION	0.06	0.06	8.63	0 07:49	0.06	174	JUNCTION	0.06	0.07	3.47	0 07:38	0.07
149	JUNCTION	0.06	0.07	7.92	0 07:53	0.07	175	JUNCTION	0.06	0.07	3.37	0 07:38	0.07
150	JUNCTION	0.06	0.07	7.90	0 07:49	0.07	176	JUNCTION	0.06	0.07	3.27	0 07:38	0.07
151	JUNCTION	0.07	0.09	7.87	0 07:41	0.09	177	JUNCTION	0.06	0.07	3.17	0 19:39	0.07
152	JUNCTION	0.06	0.07	7.85	0 07:48	0.07	178	JUNCTION	0.06	0.07	3.07	0 07:39	0.07
153	JUNCTION	0.06	0.06	7.74	0 19:56	0.06	179	JUNCTION	0.06	0.07	2.97	0 07:39	0.07
155	JUNCTION	0.06	0.07	7.57	0 19:35	0.07	180	JUNCTION	0.06	0.07	2.87	0 07:40	0.07
156	JUNCTION	0.06	0.07	7.41	0 07:38	0.07	181	JUNCTION	0.06	0.07	2.77	0 07:40	0.07
157	JUNCTION	0.06	0.07	6.92	0 07:41	0.07	182	JUNCTION	0.06	0.07	2.57	0 07:40	0.07

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

183	JUNCTION	0.07	0.08	2.48	0 07:41	0.08	2020	JUNCTION	0.11	0.14	6.54	0 07:54	0.14
184	JUNCTION	0.07	0.08	2.28	0 07:41	0.08	2021	JUNCTION	0.06	0.06	9.80	0 07:28	0.06
1840	JUNCTION	0.46	0.48	7.91	0 08:00	0.47	2022	JUNCTION	0.06	0.07	12.47	0 07:28	0.07
1841	JUNCTION	0.07	0.09	7.91	0 19:45	0.09	2023	JUNCTION	0.07	0.08	12.68	0 19:27	0.08
185	JUNCTION	0.06	0.08	2.18	0 07:41	0.08	2024	JUNCTION	0.12	0.16	6.36	0 07:59	0.16
186	JUNCTION	0.07	0.08	2.08	0 07:37	0.08	2025	JUNCTION	0.12	0.16	5.96	0 19:56	0.16
187	JUNCTION	0.07	0.08	1.83	0 19:43	0.08	2026	JUNCTION	0.09	0.11	5.03	0 07:53	0.11
188	JUNCTION	0.06	0.07	1.62	0 19:43	0.07	203	JUNCTION	0.09	0.13	1.38	0 20:00	0.13
189	JUNCTION	0.06	0.07	1.27	0 07:43	0.07	204	JUNCTION	0.14	0.18	1.53	0 20:00	0.18
190	JUNCTION	0.14	0.19	-0.11	0 20:00	0.19	205	JUNCTION	0.14	0.18	1.63	0 20:00	0.18
191	JUNCTION	0.09	0.14	-0.06	0 20:00	0.14	206	JUNCTION	0.14	0.18	1.73	0 20:00	0.18
192	JUNCTION	0.08	0.13	0.03	0 20:00	0.13	207	JUNCTION	0.14	0.19	1.84	0 20:00	0.19
193	JUNCTION	0.09	0.14	0.14	0 20:00	0.14	2078	JUNCTION	0.08	0.10	17.00	0 19:55	0.10
194	JUNCTION	0.09	0.14	0.24	0 20:00	0.14	208	JUNCTION	0.16	0.22	1.92	0 20:00	0.22
195	JUNCTION	0.09	0.14	0.34	0 20:00	0.14	2080	JUNCTION	0.10	0.12	16.52	0 07:58	0.12
196	JUNCTION	0.07	0.11	0.51	0 20:00	0.11	2081	JUNCTION	0.09	0.11	14.88	0 07:57	0.11
197	JUNCTION	0.09	0.13	0.63	0 20:00	0.13	2082	JUNCTION	0.09	0.11	14.34	0 07:51	0.11
198	JUNCTION	0.09	0.13	0.78	0 20:00	0.13	2083	JUNCTION	0.11	0.14	13.39	0 07:48	0.14
199	JUNCTION	0.09	0.13	0.93	0 20:00	0.13	209	JUNCTION	0.14	0.18	1.98	0 20:00	0.18
200	JUNCTION	0.09	0.13	1.03	0 20:00	0.13	210	JUNCTION	0.15	0.19	2.09	0 20:00	0.19
2008	JUNCTION	0.10	0.13	13.03	0 19:54	0.13	211	JUNCTION	0.15	0.21	2.16	0 20:00	0.21
201	JUNCTION	0.08	0.13	1.18	0 20:00	0.13	212	JUNCTION	0.15	0.21	2.21	0 20:00	0.21
2010	JUNCTION	0.11	0.14	12.74	0 19:59	0.14	219	JUNCTION	0.07	0.08	22.78	0 08:00	0.08
2011	JUNCTION	0.08	0.10	12.01	0 07:44	0.10	220	JUNCTION	0.07	0.08	22.68	0 07:54	0.08
2012	JUNCTION	0.10	0.13	9.26	0 07:59	0.13	221	JUNCTION	0.07	0.08	22.48	0 07:54	0.08
2013	JUNCTION	0.10	0.13	8.94	0 19:45	0.13	222	JUNCTION	0.06	0.07	22.32	0 19:59	0.07
2014	JUNCTION	0.11	0.15	8.77	0 19:58	0.15	223	JUNCTION	0.07	0.08	20.40	0 19:57	0.08
2015	JUNCTION	0.11	0.15	8.40	0 19:46	0.15	224	JUNCTION	0.07	0.08	20.18	0 19:56	0.08
2016	JUNCTION	0.11	0.15	8.10	0 07:52	0.15	225	JUNCTION	0.07	0.08	20.08	0 07:32	0.08
2017	JUNCTION	0.11	0.14	7.84	0 19:53	0.14	226	JUNCTION	0.07	0.08	19.88	0 20:00	0.08
2018	JUNCTION	0.11	0.15	7.35	0 07:56	0.15	227	JUNCTION	0.07	0.08	19.58	0 07:24	0.08
2019	JUNCTION	0.11	0.15	6.80	0 08:00	0.15	228	JUNCTION	0.07	0.09	19.49	0 19:59	0.09
202	JUNCTION	0.09	0.14	1.29	0 20:00	0.14	229	JUNCTION	0.07	0.08	19.38	0 20:00	0.08

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

230	JUNCTION	0.08	0.09	19.09	0	20:00	0.09	2893	JUNCTION	0.05	0.05	24.23	0	07:34	0.05
231	JUNCTION	0.08	0.09	18.99	0	20:00	0.09	290	JUNCTION	0.10	0.13	13.94	0	07:02	0.13
232	JUNCTION	0.08	0.09	18.89	0	20:00	0.09	291	JUNCTION	0.10	0.12	13.82	0	07:03	0.12
233	JUNCTION	0.08	0.09	18.79	0	20:00	0.09	292	JUNCTION	0.08	0.10	13.42	0	19:03	0.10
234	JUNCTION	0.08	0.10	18.60	0	20:00	0.10	2926	JUNCTION	0.05	0.05	5.45	0	07:31	0.05
235	JUNCTION	0.08	0.10	18.50	0	20:00	0.10	2927	JUNCTION	0.05	0.06	5.26	0	07:46	0.06
237	JUNCTION	0.05	0.05	26.29	0	19:04	0.05	2928	JUNCTION	0.05	0.06	5.06	0	07:47	0.06
238	JUNCTION	0.05	0.06	26.25	0	07:44	0.06	2929	JUNCTION	0.05	0.06	4.86	0	08:00	0.06
239	JUNCTION	0.07	0.08	26.19	0	19:32	0.08	293	JUNCTION	0.11	0.14	13.14	0	07:03	0.14
244	JUNCTION	0.15	0.17	26.19	0	19:41	0.17	2930	JUNCTION	0.01	0.01	4.51	0	08:00	0.01
245	JUNCTION	0.05	0.06	26.18	0	19:50	0.06	2931	JUNCTION	0.06	0.06	4.36	0	07:09	0.06
246	JUNCTION	0.05	0.06	25.71	0	19:57	0.06	2935	JUNCTION	0.06	0.07	6.97	0	19:46	0.07
247	JUNCTION	0.05	0.06	25.13	0	19:59	0.06	2936	JUNCTION	0.06	0.07	7.50	0	07:59	0.07
248	JUNCTION	0.05	0.06	23.54	0	19:59	0.06	2937	JUNCTION	0.06	0.07	7.68	0	07:51	0.07
249	JUNCTION	0.06	0.06	22.37	0	19:59	0.06	2938	JUNCTION	0.06	0.06	8.56	0	19:53	0.06
250	JUNCTION	0.05	0.05	11.29	0	07:28	0.05	2939	JUNCTION	0.06	0.06	11.41	0	07:48	0.06
251	JUNCTION	0.05	0.06	11.06	0	07:31	0.06	294	JUNCTION	0.10	0.12	13.00	0	07:21	0.12
252	JUNCTION	0.06	0.06	10.78	0	07:39	0.06	2940	JUNCTION	0.05	0.06	14.19	0	19:50	0.06
253	JUNCTION	0.05	0.06	10.75	0	07:39	0.06	2941	JUNCTION	0.05	0.06	15.81	0	19:50	0.06
254	JUNCTION	0.06	0.06	10.23	0	07:39	0.06	2942	JUNCTION	0.06	0.06	16.04	0	07:57	0.06
255	JUNCTION	0.10	0.12	9.42	0	07:59	0.12	2943	JUNCTION	0.05	0.06	16.66	0	07:49	0.06
256	JUNCTION	0.09	0.10	9.10	0	07:40	0.10	2944	JUNCTION	0.06	0.06	18.53	0	07:48	0.06
257	JUNCTION	0.05	0.06	8.56	0	07:16	0.06	2945	JUNCTION	0.06	0.06	19.28	0	07:51	0.06
258	JUNCTION	0.08	0.10	8.50	0	19:57	0.10	2946	JUNCTION	0.06	0.06	19.61	0	19:44	0.06
2595	JUNCTION	0.06	0.06	15.87	0	19:18	0.06	2947	JUNCTION	0.06	0.06	19.77	0	07:49	0.06
2596	JUNCTION	0.06	0.06	16.18	0	07:11	0.06	2948	JUNCTION	0.14	0.18	3.98	0	20:00	0.18
2597	JUNCTION	0.05	0.06	16.93	0	07:32	0.06	2949	JUNCTION	0.09	0.11	4.38	0	07:15	0.11
2600	JUNCTION	0.05	0.06	18.43	0	07:41	0.06	295	JUNCTION	0.09	0.11	12.57	0	07:21	0.11
2601	JUNCTION	0.05	0.06	19.88	0	07:41	0.06	2950	JUNCTION	0.10	0.12	4.95	0	19:24	0.12
2602	JUNCTION	0.05	0.06	20.50	0	07:41	0.06	2951	JUNCTION	0.12	0.14	5.14	0	19:24	0.14
2603	JUNCTION	0.05	0.05	21.15	0	07:24	0.05	2952	JUNCTION	0.10	0.11	6.17	0	19:24	0.11
2606	JUNCTION	0.05	0.05	22.68	0	07:23	0.05	2953	JUNCTION	0.09	0.11	7.04	0	19:24	0.11
2607	JUNCTION	0.05	0.05	23.30	0	07:23	0.05	2954	JUNCTION	0.11	0.14	7.28	0	19:24	0.14

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

2955	JUNCTION	0.12	0.14	7.44	0	19:23	0.14	2985	JUNCTION	0.05	0.05	9.28	0	07:26	0.05
2956	JUNCTION	0.11	0.14	7.74	0	19:23	0.14	2986	JUNCTION	0.05	0.05	9.86	0	07:26	0.05
2957	JUNCTION	0.11	0.14	7.94	0	19:23	0.14	299	JUNCTION	0.10	0.12	9.33	0	19:05	0.12
2958	JUNCTION	0.12	0.14	8.14	0	19:23	0.14	2999	JUNCTION	0.06	0.06	8.66	0	07:38	0.06
2959	JUNCTION	0.12	0.14	8.34	0	19:23	0.14	300	JUNCTION	0.10	0.13	9.08	0	07:06	0.13
296	JUNCTION	0.08	0.10	11.83	0	07:18	0.10	3000	JUNCTION	0.06	0.06	9.06	0	07:37	0.06
2960	JUNCTION	0.12	0.14	8.54	0	19:22	0.14	3001	JUNCTION	0.06	0.07	9.57	0	07:37	0.07
2961	JUNCTION	0.11	0.13	8.73	0	19:22	0.13	3002	JUNCTION	0.05	0.05	10.08	0	07:32	0.05
2962	JUNCTION	0.12	0.14	8.84	0	19:22	0.14	3003	JUNCTION	0.07	0.09	7.33	0	20:00	0.09
2963	JUNCTION	0.08	0.08	10.45	0	07:33	0.08	3004	JUNCTION	0.07	0.08	7.67	0	20:00	0.08
2964	JUNCTION	0.12	0.14	10.66	0	19:55	0.14	3005	JUNCTION	0.07	0.08	8.45	0	20:00	0.08
2965	JUNCTION	0.10	0.12	10.96	0	19:49	0.12	3006	JUNCTION	0.06	0.08	9.13	0	20:00	0.08
2966	JUNCTION	0.10	0.12	11.37	0	19:47	0.12	3007	JUNCTION	0.07	0.08	10.72	0	20:00	0.08
2967	JUNCTION	0.10	0.12	11.70	0	07:57	0.12	3008	JUNCTION	0.06	0.07	12.33	0	20:00	0.07
2968	JUNCTION	0.09	0.11	12.51	0	19:45	0.11	3009	JUNCTION	0.06	0.07	12.91	0	20:00	0.07
2969	JUNCTION	0.09	0.10	14.16	0	19:29	0.10	301	JUNCTION	0.10	0.13	8.63	0	19:08	0.13
297	JUNCTION	0.09	0.11	10.70	0	19:51	0.11	3010	JUNCTION	0.06	0.08	13.42	0	20:00	0.08
2970	JUNCTION	0.09	0.10	15.42	0	07:57	0.10	3011	JUNCTION	0.06	0.07	15.59	0	20:00	0.07
2971	JUNCTION	0.09	0.10	16.54	0	19:34	0.10	3012	JUNCTION	0.06	0.07	18.29	0	20:00	0.07
2972	JUNCTION	0.09	0.11	16.94	0	07:40	0.11	3013	JUNCTION	0.06	0.07	19.57	0	20:00	0.07
2973	JUNCTION	0.09	0.11	17.61	0	19:39	0.11	3014	JUNCTION	0.08	0.09	19.79	0	20:00	0.09
2974	JUNCTION	0.09	0.11	18.28	0	07:48	0.11	3015	JUNCTION	0.08	0.09	19.99	0	20:00	0.09
2975	JUNCTION	0.11	0.13	18.60	0	07:34	0.13	3016	JUNCTION	0.07	0.09	20.19	0	20:00	0.09
2976	JUNCTION	0.11	0.13	19.01	0	19:47	0.13	3017	JUNCTION	0.07	0.08	20.48	0	20:00	0.08
2977	JUNCTION	0.10	0.12	19.54	0	07:32	0.12	3018	JUNCTION	0.07	0.07	21.25	0	20:00	0.07
2978	JUNCTION	0.11	0.13	19.67	0	19:32	0.13	302	JUNCTION	0.11	0.14	8.44	0	19:08	0.14
2979	JUNCTION	0.10	0.11	20.18	0	19:30	0.11	3024	JUNCTION	0.07	0.08	10.98	0	20:00	0.08
298	JUNCTION	0.08	0.10	10.33	0	07:58	0.10	3025	JUNCTION	0.07	0.08	11.18	0	20:00	0.08
2980	JUNCTION	0.10	0.11	21.17	0	19:59	0.11	3026	JUNCTION	0.07	0.08	11.38	0	20:00	0.08
2981	JUNCTION	0.10	0.11	21.71	0	19:27	0.11	3027	JUNCTION	0.07	0.08	11.58	0	20:00	0.08
2982	JUNCTION	0.12	0.14	21.84	0	19:30	0.14	3028	JUNCTION	0.06	0.07	11.82	0	20:00	0.07
2983	JUNCTION	0.11	0.13	21.93	0	20:00	0.13	3029	JUNCTION	0.07	0.08	12.09	0	20:00	0.08
2984	JUNCTION	0.05	0.05	8.65	0	07:25	0.05	303	JUNCTION	0.10	0.13	8.33	0	19:09	0.13

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

3030	JUNCTION	0.06	0.06	12.17	0	19:12	0.06	3063	JUNCTION	0.06	0.07	8.87	0	19:22	0.07
3031	JUNCTION	0.06	0.06	12.26	0	19:12	0.06	307	JUNCTION	0.11	0.13	11.23	0	19:01	0.13
3032	JUNCTION	0.05	0.06	12.97	0	19:11	0.06	308	JUNCTION	0.10	0.12	11.12	0	06:09	0.12
3034	JUNCTION	0.05	0.06	14.49	0	19:11	0.06	3085	JUNCTION	0.05	0.05	22.28	0	08:00	0.05
3035	JUNCTION	0.05	0.06	16.35	0	19:11	0.06	3086	JUNCTION	0.05	0.05	22.86	0	08:00	0.05
3036	JUNCTION	0.05	0.06	18.68	0	19:10	0.06	309	JUNCTION	0.10	0.12	10.92	0	07:16	0.12
3037	JUNCTION	0.05	0.06	19.54	0	19:10	0.06	3093	JUNCTION	0.05	0.06	21.96	0	07:50	0.06
3039	JUNCTION	0.05	0.06	21.06	0	19:10	0.06	3094	JUNCTION	0.06	0.06	22.16	0	07:48	0.06
3040	JUNCTION	0.05	0.06	20.86	0	19:10	0.06	3095	JUNCTION	0.05	0.06	22.71	0	07:36	0.06
3041	JUNCTION	0.05	0.06	20.66	0	19:11	0.06	3096	JUNCTION	0.05	0.06	23.26	0	07:35	0.06
3042	JUNCTION	0.05	0.06	20.46	0	19:12	0.06	3097	JUNCTION	0.05	0.06	23.46	0	07:34	0.06
3043	JUNCTION	0.05	0.06	20.26	0	19:12	0.06	3098	JUNCTION	0.05	0.06	23.66	0	07:25	0.06
3044	JUNCTION	0.05	0.06	18.64	0	19:13	0.06	3099	JUNCTION	0.05	0.06	23.86	0	19:25	0.06
3045	JUNCTION	0.05	0.06	16.51	0	19:13	0.06	3100	JUNCTION	0.05	0.06	24.06	0	07:24	0.06
3046	JUNCTION	0.05	0.06	14.17	0	19:13	0.06	3101	JUNCTION	0.05	0.05	24.22	0	07:22	0.05
3047	JUNCTION	0.05	0.06	13.33	0	19:13	0.06	3108	JUNCTION	0.07	0.09	12.15	0	20:00	0.09
3048	JUNCTION	0.05	0.06	12.68	0	19:14	0.06	3109	JUNCTION	0.06	0.07	14.20	0	20:00	0.07
3049	JUNCTION	0.05	0.06	11.54	0	19:14	0.06	311	JUNCTION	0.11	0.13	14.48	0	07:08	0.13
305	JUNCTION	0.11	0.13	11.53	0	07:00	0.13	3110	JUNCTION	0.06	0.07	15.74	0	20:00	0.07
3050	JUNCTION	0.07	0.08	10.87	0	19:15	0.08	3111	JUNCTION	0.06	0.07	16.88	0	20:00	0.07
3051	JUNCTION	0.06	0.06	10.85	0	19:15	0.06	3112	JUNCTION	0.06	0.07	19.94	0	20:00	0.07
3052	JUNCTION	0.06	0.06	10.67	0	19:16	0.06	3113	JUNCTION	0.07	0.08	20.08	0	20:00	0.08
3053	JUNCTION	0.06	0.07	10.30	0	19:17	0.07	3114	JUNCTION	0.07	0.08	20.28	0	20:00	0.08
3054	JUNCTION	0.06	0.07	10.09	0	19:17	0.07	3115	JUNCTION	0.07	0.08	20.38	0	20:00	0.08
3055	JUNCTION	0.06	0.07	9.97	0	19:17	0.07	3116	JUNCTION	0.07	0.09	20.49	0	20:00	0.09
3056	JUNCTION	0.06	0.07	9.87	0	19:18	0.07	3117	JUNCTION	0.07	0.08	20.68	0	20:00	0.08
3057	JUNCTION	0.06	0.07	9.77	0	19:18	0.07	3118	JUNCTION	0.05	0.06	22.32	0	19:10	0.06
3058	JUNCTION	0.06	0.07	9.67	0	19:18	0.07	3119	JUNCTION	0.05	0.06	23.38	0	19:09	0.06
3059	JUNCTION	0.06	0.07	9.57	0	19:18	0.07	312	JUNCTION	0.10	0.12	14.32	0	20:00	0.12
306	JUNCTION	0.10	0.12	11.42	0	07:00	0.12	3120	JUNCTION	0.05	0.06	24.07	0	19:09	0.06
3060	JUNCTION	0.06	0.07	9.47	0	19:19	0.07	3121	JUNCTION	0.05	0.06	25.05	0	19:08	0.06
3061	JUNCTION	0.06	0.07	9.27	0	19:18	0.07	3122	JUNCTION	0.05	0.06	25.75	0	19:08	0.06
3062	JUNCTION	0.06	0.07	9.07	0	19:22	0.07	3123	JUNCTION	0.05	0.06	25.92	0	19:06	0.06

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

3124	JUNCTION	0.05	0.05	26.05	0	19:05	0.05	3176	JUNCTION	0.05	0.06	19.63	0	07:26	0.06
3126	JUNCTION	0.07	0.08	17.78	0	20:00	0.08	3177	JUNCTION	0.05	0.06	20.46	0	07:26	0.06
3127	JUNCTION	0.06	0.07	17.87	0	19:17	0.07	3178	JUNCTION	0.05	0.06	2.16	0	08:00	0.06
3128	JUNCTION	0.06	0.07	18.07	0	19:16	0.07	3179	JUNCTION	0.05	0.06	2.56	0	08:00	0.06
3129	JUNCTION	0.05	0.06	19.65	0	19:13	0.06	318	JUNCTION	0.07	0.08	17.52	0	20:00	0.08
313	JUNCTION	0.11	0.14	14.24	0	20:00	0.14	3180	JUNCTION	0.05	0.06	2.76	0	07:49	0.06
3130	JUNCTION	0.05	0.06	21.38	0	19:12	0.06	3181	JUNCTION	0.05	0.06	2.96	0	07:48	0.06
3131	JUNCTION	0.05	0.06	22.89	0	19:09	0.06	3182	JUNCTION	0.05	0.05	3.25	0	07:39	0.05
3132	JUNCTION	0.05	0.06	23.90	0	19:09	0.06	319	JUNCTION	0.10	0.11	17.52	0	20:00	0.11
3133	JUNCTION	0.05	0.06	24.90	0	19:08	0.06	3193	JUNCTION	0.06	0.06	4.36	0	07:44	0.06
3134	JUNCTION	0.05	0.05	25.81	0	19:08	0.05	3194	JUNCTION	0.06	0.07	4.52	0	07:44	0.07
3136	JUNCTION	0.05	0.06	25.84	0	19:07	0.06	3195	JUNCTION	0.06	0.07	4.74	0	07:41	0.07
314	JUNCTION	0.05	0.06	16.29	0	20:00	0.06	3196	JUNCTION	0.06	0.07	4.88	0	07:41	0.07
315	JUNCTION	0.06	0.06	17.03	0	20:00	0.06	3197	JUNCTION	0.05	0.05	5.14	0	07:31	0.05
3152	JUNCTION	0.05	0.05	21.45	0	07:24	0.05	3198	JUNCTION	0.05	0.05	5.57	0	07:30	0.05
3153	JUNCTION	0.05	0.05	21.91	0	07:24	0.05	320	JUNCTION	0.05	0.05	18.35	0	07:55	0.05
3154	JUNCTION	0.05	0.05	22.23	0	07:15	0.05	3201	JUNCTION	0.06	0.07	4.99	0	19:40	0.07
3155	JUNCTION	0.06	0.07	20.47	0	20:00	0.07	3202	JUNCTION	0.06	0.06	6.06	0	07:39	0.06
3156	JUNCTION	0.06	0.07	20.57	0	20:00	0.07	322	JUNCTION	0.05	0.05	20.11	0	07:34	0.05
3157	JUNCTION	0.06	0.07	20.77	0	20:00	0.07	323	JUNCTION	0.05	0.05	19.70	0	07:43	0.05
3158	JUNCTION	0.06	0.07	20.97	0	20:00	0.07	324	JUNCTION	0.05	0.06	19.61	0	07:47	0.06
3159	JUNCTION	0.06	0.07	20.37	0	20:00	0.07	326	JUNCTION	0.05	0.06	19.03	0	20:00	0.06
316	JUNCTION	0.05	0.06	17.52	0	20:00	0.06	3263	JUNCTION	0.11	0.14	0.64	0	07:57	0.14
3160	JUNCTION	0.07	0.08	20.18	0	20:00	0.08	3264	JUNCTION	0.14	0.20	0.85	0	07:57	0.20
3161	JUNCTION	0.06	0.08	19.98	0	20:00	0.08	3265	JUNCTION	0.13	0.18	1.08	0	07:56	0.18
3162	JUNCTION	0.06	0.07	19.69	0	20:00	0.07	3266	JUNCTION	0.13	0.19	1.19	0	19:56	0.19
3163	JUNCTION	0.07	0.08	19.41	0	20:00	0.08	3267	JUNCTION	0.11	0.16	1.36	0	19:56	0.16
3164	JUNCTION	0.06	0.06	19.29	0	20:00	0.06	3268	JUNCTION	0.12	0.17	1.57	0	19:58	0.17
317	JUNCTION	0.11	0.12	17.52	0	20:00	0.12	3269	JUNCTION	0.13	0.19	1.69	0	19:57	0.19
3172	JUNCTION	0.05	0.06	19.03	0	07:25	0.06	327	JUNCTION	0.05	0.06	18.00	0	20:00	0.06
3173	JUNCTION	0.06	0.06	18.43	0	19:26	0.06	3270	JUNCTION	0.13	0.19	1.79	0	07:56	0.19
3174	JUNCTION	0.06	0.06	18.26	0	07:42	0.06	3271	JUNCTION	0.14	0.21	1.91	0	07:55	0.21
3175	JUNCTION	0.06	0.06	18.16	0	19:34	0.06	3272	JUNCTION	0.13	0.20	2.00	0	19:57	0.20

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

3273	JUNCTION	0.14	0.20	2.10	0	19:57	0.20	342	JUNCTION	0.08	0.10	16.27	0	07:01	0.10
3274	JUNCTION	0.14	0.19	2.29	0	19:55	0.19	343	JUNCTION	0.08	0.10	14.86	0	07:02	0.10
3276	JUNCTION	0.10	0.13	2.43	0	07:54	0.13	3440	JUNCTION	0.10	0.12	1.72	0	20:00	0.12
3277	JUNCTION	0.13	0.18	2.58	0	07:54	0.18	3441	JUNCTION	0.05	0.06	1.76	0	08:00	0.06
3278	JUNCTION	0.14	0.20	2.70	0	07:56	0.20	3442	JUNCTION	0.05	0.06	1.96	0	08:00	0.06
328	JUNCTION	0.06	0.06	17.22	0	20:00	0.06	3443	JUNCTION	0.05	0.06	2.36	0	07:56	0.06
3280	JUNCTION	0.11	0.15	2.75	0	07:54	0.15	3444	JUNCTION	0.05	0.06	2.56	0	07:43	0.06
329	JUNCTION	0.06	0.06	17.16	0	07:59	0.06	3445	JUNCTION	0.05	0.06	2.86	0	07:42	0.06
330	JUNCTION	0.06	0.06	16.96	0	19:59	0.06	3446	JUNCTION	0.05	0.05	3.20	0	07:31	0.05
332	JUNCTION	0.06	0.06	16.34	0	20:00	0.06	3453	JUNCTION	0.05	0.05	2.55	0	07:31	0.05
3320	JUNCTION	0.05	0.05	15.07	0	07:25	0.05	3454	JUNCTION	0.05	0.06	2.36	0	07:33	0.06
3321	JUNCTION	0.05	0.05	14.74	0	07:26	0.05	3455	JUNCTION	0.06	0.06	2.26	0	07:11	0.06
3322	JUNCTION	0.05	0.06	14.40	0	07:26	0.06	3456	JUNCTION	0.06	0.06	4.10	0	19:39	0.06
3323	JUNCTION	0.05	0.06	14.03	0	07:27	0.06	3457	JUNCTION	0.06	0.07	3.76	0	19:21	0.07
3324	JUNCTION	0.05	0.06	13.49	0	07:28	0.06	3458	JUNCTION	0.06	0.07	3.43	0	19:29	0.07
3325	JUNCTION	0.05	0.06	13.15	0	07:27	0.06	3505	JUNCTION	0.09	0.11	3.11	0	08:00	0.11
3326	JUNCTION	0.05	0.06	12.13	0	19:30	0.06	3508	JUNCTION	0.09	0.11	2.71	0	08:00	0.11
3327	JUNCTION	0.05	0.06	11.48	0	07:34	0.06	3617	JUNCTION	0.09	0.11	3.61	0	08:00	0.11
3328	JUNCTION	0.06	0.06	10.89	0	07:34	0.06	3618	JUNCTION	0.09	0.11	3.31	0	08:00	0.11
3329	JUNCTION	0.10	0.13	10.83	0	07:36	0.13	3619	JUNCTION	0.09	0.12	2.92	0	08:00	0.12
333	JUNCTION	0.06	0.07	15.81	0	20:00	0.07	3620	JUNCTION	0.09	0.12	2.72	0	08:00	0.12
334	JUNCTION	0.06	0.06	15.66	0	19:59	0.06	3621	JUNCTION	0.09	0.11	2.61	0	08:00	0.11
335	JUNCTION	0.06	0.07	15.47	0	20:00	0.07	3622	JUNCTION	0.09	0.11	2.31	0	08:00	0.11
336	JUNCTION	0.11	0.14	20.81	0	07:00	0.14	3623	JUNCTION	0.09	0.11	2.11	0	08:00	0.11
337	JUNCTION	0.09	0.11	20.71	0	07:00	0.11	3624	JUNCTION	0.09	0.12	1.92	0	08:00	0.12
338	JUNCTION	0.08	0.10	20.39	0	19:00	0.10	3625	JUNCTION	0.09	0.12	1.82	0	20:00	0.12
339	JUNCTION	0.08	0.10	19.61	0	19:01	0.10	3626	JUNCTION	0.09	0.12	1.62	0	20:00	0.12
340	JUNCTION	0.09	0.10	18.06	0	07:01	0.10	3627	JUNCTION	0.09	0.12	1.52	0	08:00	0.12
3409	JUNCTION	0.05	0.06	17.16	0	07:35	0.06	3628	JUNCTION	0.09	0.11	1.31	0	20:00	0.11
341	JUNCTION	0.08	0.10	17.45	0	07:01	0.10	3629	JUNCTION	0.09	0.11	1.11	0	08:00	0.11
3410	JUNCTION	0.05	0.06	17.29	0	07:35	0.06	3630	JUNCTION	0.08	0.09	0.89	0	20:00	0.09
3411	JUNCTION	0.05	0.06	17.52	0	07:35	0.06	3631	JUNCTION	0.06	0.06	2.54	0	20:00	0.06
3412	JUNCTION	0.05	0.05	17.66	0	07:30	0.05	3632	JUNCTION	0.07	0.09	2.62	0	20:00	0.09

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

3633	JUNCTION	0.15	0.17	2.62	0	20:00	0.17	452	JUNCTION	0.12	0.15	3.15	0	20:00	0.15
3634	JUNCTION	0.08	0.10	2.62	0	20:00	0.10	453	JUNCTION	0.10	0.13	3.33	0	20:00	0.13
3635	JUNCTION	0.06	0.07	2.75	0	20:00	0.07	454	JUNCTION	0.10	0.13	3.63	0	20:00	0.13
3636	JUNCTION	0.07	0.09	2.85	0	20:00	0.09	455	JUNCTION	0.11	0.14	3.74	0	20:00	0.14
3637	JUNCTION	0.06	0.07	3.05	0	07:31	0.07	456	JUNCTION	0.11	0.13	3.93	0	20:00	0.13
3638	JUNCTION	0.06	0.06	3.29	0	19:30	0.06	457	JUNCTION	0.12	0.14	4.04	0	20:00	0.14
3692	JUNCTION	0.06	0.07	17.57	0	19:11	0.07	4788	JUNCTION	0.13	0.17	2.57	0	20:00	0.17
3693	JUNCTION	0.05	0.06	19.35	0	07:15	0.06	4789	JUNCTION	0.13	0.16	2.26	0	20:00	0.16
3905	JUNCTION	0.06	0.07	24.50	0	07:28	0.07	4790	JUNCTION	0.06	0.07	5.54	0	07:59	0.07
3906	JUNCTION	0.06	0.06	25.74	0	07:28	0.06	4791	JUNCTION	0.06	0.07	6.47	0	07:54	0.07
3907	JUNCTION	0.05	0.06	27.97	0	07:25	0.06	4792	JUNCTION	0.06	0.07	8.02	0	19:57	0.07
3908	JUNCTION	0.05	0.05	25.77	0	07:25	0.05	4793	JUNCTION	0.06	0.07	9.70	0	19:57	0.07
430	JUNCTION	0.12	0.16	3.76	0	07:56	0.16	4794	JUNCTION	0.06	0.07	10.73	0	07:51	0.07
431	JUNCTION	0.11	0.16	3.66	0	07:56	0.16	4795	JUNCTION	0.06	0.06	11.99	0	07:57	0.06
432	JUNCTION	0.12	0.16	3.56	0	07:51	0.16	4796	JUNCTION	0.06	0.06	12.57	0	07:58	0.06
434	JUNCTION	0.12	0.15	6.56	0	07:05	0.15	4797	JUNCTION	0.06	0.06	13.92	0	07:52	0.06
435	JUNCTION	0.12	0.16	6.36	0	19:06	0.16	4798	JUNCTION	0.06	0.06	14.91	0	07:49	0.06
436	JUNCTION	0.12	0.16	6.16	0	07:07	0.16	4799	JUNCTION	0.06	0.06	16.76	0	07:59	0.06
437	JUNCTION	0.12	0.16	6.06	0	19:07	0.16	4800	JUNCTION	0.05	0.06	18.07	0	07:45	0.06
438	JUNCTION	0.13	0.17	5.97	0	07:08	0.17	4801	JUNCTION	0.05	0.06	18.46	0	07:54	0.06
440	JUNCTION	0.98	1.00	11.23	0	00:56	1.00	4802	JUNCTION	0.06	0.07	19.57	0	07:53	0.07
441	JUNCTION	0.06	0.07	12.67	0	07:29	0.07	4803	JUNCTION	0.07	0.08	19.78	0	19:46	0.08
442	JUNCTION	0.08	0.09	9.69	0	07:34	0.09	4804	JUNCTION	0.07	0.08	19.98	0	07:46	0.08
443	JUNCTION	0.06	0.07	9.87	0	07:05	0.07	4805	JUNCTION	0.06	0.06	20.31	0	07:35	0.06
444	JUNCTION	0.06	0.07	10.07	0	19:04	0.07	4806	JUNCTION	0.06	0.06	20.53	0	19:33	0.06
445	JUNCTION	0.06	0.07	10.17	0	07:03	0.07	4807	JUNCTION	0.06	0.06	20.88	0	07:33	0.06
446	JUNCTION	0.06	0.06	10.29	0	07:12	0.06	4808	JUNCTION	0.06	0.06	21.28	0	07:32	0.06
447	JUNCTION	0.03	0.04	2.04	0	20:00	0.04	4809	JUNCTION	0.05	0.05	21.73	0	07:25	0.05
448	JUNCTION	0.11	0.13	2.33	0	20:00	0.13	481	JUNCTION	0.06	0.06	10.20	0	08:00	0.06
449	JUNCTION	0.11	0.14	2.44	0	20:00	0.14	4810	JUNCTION	0.06	0.06	20.50	0	07:30	0.06
4492	JUNCTION	0.05	0.06	22.06	0	07:57	0.06	4811	JUNCTION	0.06	0.06	19.07	0	07:30	0.06
450	JUNCTION	0.11	0.14	2.74	0	20:00	0.14	4812	JUNCTION	0.06	0.06	18.79	0	07:48	0.06
451	JUNCTION	0.11	0.14	3.04	0	20:00	0.14	4813	JUNCTION	0.06	0.07	18.27	0	19:18	0.07



*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

4814	JUNCTION	0.06	0.07	17.91	0 07:49	0.07	4846	JUNCTION	0.08	0.10	7.13	0 07:54	0.10
4815	JUNCTION	0.07	0.08	17.38	0 19:55	0.08	4848	JUNCTION	0.09	0.12	6.52	0 07:55	0.12
4816	JUNCTION	0.07	0.08	16.92	0 07:53	0.08	4849	JUNCTION	0.09	0.12	6.42	0 07:53	0.12
4817	JUNCTION	0.07	0.08	15.66	0 19:57	0.08	485	JUNCTION	0.06	0.07	12.47	0 08:00	0.07
4818	JUNCTION	0.07	0.08	15.04	0 07:53	0.08	4850	JUNCTION	0.08	0.10	6.25	0 07:53	0.10
4819	JUNCTION	0.07	0.08	14.67	0 07:53	0.08	4851	JUNCTION	0.08	0.10	5.62	0 07:55	0.10
482	JUNCTION	0.06	0.07	11.07	0 20:00	0.07	4852	JUNCTION	0.09	0.12	4.74	0 07:56	0.12
4820	JUNCTION	0.08	0.09	14.25	0 19:58	0.09	4853	JUNCTION	0.09	0.12	4.52	0 07:55	0.12
4821	JUNCTION	0.07	0.08	13.99	0 07:41	0.08	4854	JUNCTION	0.08	0.11	4.41	0 07:58	0.11
4822	JUNCTION	0.07	0.08	13.66	0 07:51	0.08	4856	JUNCTION	0.10	0.13	4.23	0 07:57	0.13
4823	JUNCTION	0.07	0.08	13.27	0 07:54	0.08	4857	JUNCTION	0.10	0.13	4.13	0 07:56	0.13
4824	JUNCTION	0.08	0.10	12.91	0 07:44	0.10	4858	JUNCTION	0.10	0.13	4.03	0 07:56	0.13
4825	JUNCTION	0.07	0.08	12.78	0 07:44	0.08	4859	JUNCTION	0.10	0.13	3.93	0 07:59	0.13
4827	JUNCTION	0.07	0.08	12.43	0 07:57	0.08	486	JUNCTION	0.06	0.07	12.66	0 08:00	0.07
4828	JUNCTION	0.09	0.11	12.11	0 07:45	0.11	4860	JUNCTION	0.10	0.12	3.82	0 19:53	0.12
4829	JUNCTION	0.08	0.10	11.80	0 19:49	0.10	4861	JUNCTION	0.07	0.09	3.69	0 07:56	0.09
483	JUNCTION	0.06	0.07	11.34	0 08:00	0.07	4862	JUNCTION	0.10	0.13	2.68	0 07:56	0.13
4830	JUNCTION	0.09	0.11	11.61	0 07:47	0.11	4863	JUNCTION	0.10	0.12	2.52	0 07:53	0.12
4831	JUNCTION	0.08	0.10	11.50	0 19:47	0.10	4864	JUNCTION	0.10	0.12	2.27	0 19:53	0.12
4832	JUNCTION	0.08	0.10	10.95	0 07:46	0.10	4865	JUNCTION	0.10	0.12	1.87	0 07:55	0.12
4833	JUNCTION	0.09	0.10	10.70	0 07:53	0.10	4866	JUNCTION	0.14	0.19	1.64	0 07:56	0.19
4834	JUNCTION	0.09	0.11	10.51	0 07:47	0.11	4867	JUNCTION	0.13	0.18	1.48	0 07:56	0.18
4835	JUNCTION	0.09	0.11	10.31	0 07:48	0.11	4868	JUNCTION	0.14	0.19	1.14	0 20:00	0.19
4836	JUNCTION	0.08	0.10	10.10	0 07:54	0.10	4869	JUNCTION	0.14	0.19	0.79	0 07:40	0.19
4838	JUNCTION	0.08	0.10	9.65	0 07:52	0.10	487	JUNCTION	0.07	0.08	12.78	0 20:00	0.08
4839	JUNCTION	0.08	0.10	9.45	0 07:52	0.10	4870	JUNCTION	0.13	0.17	0.57	0 20:00	0.17
484	JUNCTION	0.06	0.07	12.00	0 08:00	0.07	4871	JUNCTION	0.12	0.16	0.36	0 07:30	0.16
4840	JUNCTION	0.08	0.10	9.20	0 19:54	0.10	4872	JUNCTION	0.16	0.22	0.22	0 20:00	0.22
4841	JUNCTION	0.09	0.12	9.02	0 07:59	0.12	4873	JUNCTION	0.06	0.07	2.47	0 07:57	0.07
4842	JUNCTION	0.09	0.11	8.91	0 19:54	0.11	4874	JUNCTION	0.08	0.09	2.69	0 07:57	0.09
4843	JUNCTION	0.09	0.11	8.71	0 07:56	0.11	4875	JUNCTION	0.07	0.08	2.98	0 19:58	0.08
4844	JUNCTION	0.08	0.10	8.30	0 07:56	0.10	4876	JUNCTION	0.08	0.09	3.29	0 07:51	0.09
4845	JUNCTION	0.09	0.11	7.95	0 07:56	0.11	4877	JUNCTION	0.08	0.10	3.40	0 19:58	0.10

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

4878	JUNCTION	0.07	0.08	4.48	0	19:58	0.08	4983	JUNCTION	0.13	0.19	3.19	0	07:53	0.19
4879	JUNCTION	0.08	0.09	4.69	0	19:54	0.09	4984	JUNCTION	0.08	0.10	3.20	0	07:44	0.10
488	JUNCTION	0.06	0.07	13.03	0	08:00	0.07	4985	JUNCTION	0.09	0.11	3.41	0	07:43	0.11
4880	JUNCTION	0.08	0.09	4.89	0	19:59	0.09	4986	JUNCTION	0.09	0.11	3.81	0	07:33	0.11
4881	JUNCTION	0.08	0.10	5.10	0	07:48	0.10	499	JUNCTION	0.05	0.06	15.98	0	07:33	0.06
4882	JUNCTION	0.08	0.10	5.20	0	19:57	0.10	500	JUNCTION	0.05	0.06	16.12	0	07:33	0.06
4883	JUNCTION	0.08	0.09	5.29	0	19:57	0.09	5003	JUNCTION	0.05	0.05	19.97	0	07:27	0.05
4884	JUNCTION	0.08	0.09	5.44	0	19:52	0.09	5004	JUNCTION	0.05	0.05	19.29	0	07:29	0.05
4885	JUNCTION	0.08	0.09	5.54	0	19:57	0.09	5005	JUNCTION	0.05	0.05	18.21	0	07:29	0.05
4886	JUNCTION	0.08	0.09	5.69	0	19:56	0.09	5006	JUNCTION	0.05	0.06	16.79	0	07:30	0.06
4887	JUNCTION	0.08	0.09	5.79	0	19:51	0.09	5007	JUNCTION	0.05	0.06	14.69	0	07:31	0.06
4889	JUNCTION	0.06	0.06	7.36	0	19:39	0.06	5008	JUNCTION	0.08	0.10	14.48	0	07:08	0.10
489	JUNCTION	0.06	0.07	13.37	0	20:00	0.07	5009	JUNCTION	0.01	0.01	6.05	0	07:25	0.01
4890	JUNCTION	0.06	0.06	8.97	0	07:47	0.06	501	JUNCTION	0.05	0.06	16.75	0	07:24	0.06
4891	JUNCTION	0.06	0.07	9.84	0	07:41	0.07	5010	JUNCTION	0.06	0.06	6.60	0	07:25	0.06
4892	JUNCTION	0.06	0.07	9.97	0	19:34	0.07	5011	JUNCTION	0.06	0.06	7.64	0	07:24	0.06
4893	JUNCTION	0.06	0.07	10.42	0	07:37	0.07	5012	JUNCTION	0.05	0.06	8.91	0	07:24	0.06
4894	JUNCTION	0.06	0.07	11.94	0	19:40	0.07	5013	JUNCTION	0.05	0.06	10.08	0	07:24	0.06
4895	JUNCTION	0.06	0.07	13.21	0	07:45	0.07	5014	JUNCTION	0.05	0.06	10.54	0	07:23	0.06
4896	JUNCTION	0.06	0.06	14.18	0	07:36	0.06	5015	JUNCTION	0.06	0.06	10.71	0	07:23	0.06
4897	JUNCTION	0.06	0.07	15.46	0	07:50	0.07	5016	JUNCTION	0.05	0.06	11.82	0	07:23	0.06
4898	JUNCTION	0.05	0.06	16.20	0	07:19	0.06	5017	JUNCTION	0.06	0.06	11.93	0	07:23	0.06
490	JUNCTION	0.06	0.07	13.77	0	08:00	0.07	5018	JUNCTION	0.05	0.06	12.26	0	07:22	0.06
491	JUNCTION	0.06	0.07	13.97	0	20:00	0.07	5019	JUNCTION	0.05	0.06	14.38	0	19:22	0.06
492	JUNCTION	0.06	0.07	14.07	0	20:00	0.07	502	JUNCTION	0.05	0.05	18.08	0	07:22	0.05
493	JUNCTION	0.06	0.07	14.29	0	07:59	0.07	5020	JUNCTION	0.05	0.06	15.39	0	19:21	0.06
494	JUNCTION	0.06	0.06	14.78	0	20:00	0.06	5021	JUNCTION	0.05	0.06	17.46	0	19:20	0.06
495	JUNCTION	0.06	0.07	14.98	0	20:00	0.07	5022	JUNCTION	0.06	0.06	17.66	0	07:19	0.06
496	JUNCTION	0.06	0.07	15.07	0	08:00	0.07	5023	JUNCTION	0.06	0.06	17.86	0	07:18	0.06
497	JUNCTION	0.06	0.07	15.24	0	08:00	0.07	5024	JUNCTION	0.06	0.06	17.96	0	07:18	0.06
498	JUNCTION	0.06	0.07	15.36	0	08:00	0.07	5025	JUNCTION	0.06	0.06	18.16	0	07:17	0.06
4981	JUNCTION	0.15	0.22	2.92	0	19:54	0.22	5026	JUNCTION	0.06	0.06	18.36	0	19:12	0.06
4982	JUNCTION	0.13	0.18	3.08	0	07:53	0.18	5027	JUNCTION	0.06	0.06	18.56	0	07:30	0.06

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

5028	JUNCTION	0.05	0.06	18.66	0	07:30	0.06	5169	JUNCTION	0.10	0.13	0.53	0	19:45	0.13
5029	JUNCTION	0.05	0.06	18.76	0	07:29	0.06	5198	JUNCTION	0.07	0.09	12.94	0	07:46	0.09
5030	JUNCTION	0.05	0.06	18.96	0	07:26	0.06	5199	JUNCTION	0.08	0.09	13.62	0	19:49	0.09
5031	JUNCTION	0.05	0.06	19.06	0	07:27	0.06	5200	JUNCTION	0.08	0.09	14.35	0	07:55	0.09
5032	JUNCTION	0.05	0.05	19.22	0	07:25	0.05	5201	JUNCTION	0.08	0.09	14.99	0	19:46	0.09
5072	JUNCTION	0.09	0.11	3.91	0	20:00	0.11	5202	JUNCTION	0.09	0.11	15.31	0	07:48	0.11
5073	JUNCTION	0.09	0.12	3.72	0	08:00	0.12	5203	JUNCTION	0.09	0.11	15.41	0	19:51	0.11
5074	JUNCTION	0.09	0.11	3.51	0	20:00	0.11	5204	JUNCTION	0.08	0.10	15.50	0	19:58	0.10
5075	JUNCTION	0.09	0.12	3.32	0	20:00	0.12	5205	JUNCTION	0.08	0.10	15.60	0	07:53	0.10
5076	JUNCTION	0.09	0.12	2.42	0	20:00	0.12	5206	JUNCTION	0.08	0.10	15.70	0	07:55	0.10
5077	JUNCTION	0.09	0.11	2.21	0	20:00	0.11	5207	JUNCTION	0.08	0.10	15.80	0	07:54	0.10
5078	JUNCTION	0.09	0.11	1.91	0	20:00	0.11	5208	JUNCTION	0.08	0.10	16.00	0	19:57	0.10
5079	JUNCTION	0.09	0.11	1.51	0	20:00	0.11	5211	JUNCTION	0.07	0.08	17.16	0	07:36	0.08
5080	JUNCTION	0.09	0.11	1.31	0	20:00	0.11	5212	JUNCTION	0.07	0.07	18.27	0	07:35	0.07
5081	JUNCTION	0.09	0.12	1.02	0	20:00	0.12	5213	JUNCTION	0.06	0.07	19.30	0	07:34	0.07
5082	JUNCTION	0.06	0.06	1.06	0	07:31	0.06	5214	JUNCTION	0.05	0.06	19.54	0	07:34	0.06
5083	JUNCTION	0.06	0.06	1.36	0	07:31	0.06	5215	JUNCTION	0.05	0.06	20.05	0	19:35	0.06
5084	JUNCTION	0.06	0.06	1.66	0	07:29	0.06	5217	JUNCTION	0.05	0.06	20.53	0	07:36	0.06
5085	JUNCTION	0.06	0.06	2.06	0	07:28	0.06	5218	JUNCTION	0.05	0.06	21.27	0	07:36	0.06
5086	JUNCTION	0.05	0.05	6.42	0	07:47	0.05	5219	JUNCTION	0.05	0.06	22.60	0	07:31	0.06
5087	JUNCTION	0.05	0.06	6.66	0	07:47	0.06	5220	JUNCTION	0.05	0.06	22.72	0	07:39	0.06
5088	JUNCTION	0.05	0.06	7.06	0	07:42	0.06	5221	JUNCTION	0.05	0.05	22.99	0	19:33	0.05
5089	JUNCTION	0.05	0.05	7.32	0	07:30	0.05	5222	JUNCTION	0.05	0.05	23.29	0	07:31	0.05
5150	JUNCTION	0.05	0.05	16.43	0	07:30	0.05	5223	JUNCTION	0.05	0.05	23.30	0	07:33	0.05
5151	JUNCTION	0.05	0.05	15.74	0	07:39	0.05	5224	JUNCTION	0.05	0.06	23.16	0	07:34	0.06
5153	JUNCTION	0.10	0.13	13.93	0	20:00	0.13	5225	JUNCTION	0.05	0.05	23.04	0	07:35	0.05
5162	JUNCTION	0.10	0.13	1.83	0	07:41	0.13	5226	JUNCTION	0.05	0.06	22.30	0	07:37	0.06
5163	JUNCTION	0.10	0.13	1.63	0	19:43	0.13	5251	JUNCTION	0.02	0.02	3.52	0	08:00	0.02
5164	JUNCTION	0.10	0.13	1.43	0	19:43	0.13	5252	JUNCTION	0.07	0.08	3.73	0	08:00	0.08
5165	JUNCTION	0.10	0.13	1.23	0	19:44	0.13	5253	JUNCTION	0.07	0.08	3.98	0	08:00	0.08
5166	JUNCTION	0.11	0.14	1.04	0	19:44	0.14	5254	JUNCTION	0.06	0.08	4.08	0	08:00	0.08
5167	JUNCTION	0.10	0.13	0.93	0	19:44	0.13	5255	JUNCTION	0.06	0.08	4.18	0	20:00	0.08
5168	JUNCTION	0.10	0.13	0.63	0	19:45	0.13	5256	JUNCTION	0.06	0.08	4.28	0	20:00	0.08

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

5257	JUNCTION	0.07	0.08	4.48	0	20:00	0.08	5307	JUNCTION	0.10	0.12	18.15	0	07:54	0.12
5258	JUNCTION	0.06	0.07	4.67	0	20:00	0.07	5308	JUNCTION	0.06	0.07	18.68	0	07:24	0.07
5259	JUNCTION	0.06	0.08	4.90	0	20:00	0.08	5309	JUNCTION	0.06	0.07	18.91	0	07:24	0.07
5260	JUNCTION	0.07	0.08	4.98	0	20:00	0.08	5310	JUNCTION	0.06	0.06	19.26	0	07:16	0.06
5261	JUNCTION	0.06	0.06	10.40	0	08:00	0.06	5311	JUNCTION	0.05	0.06	19.52	0	19:06	0.06
5262	JUNCTION	0.06	0.06	9.89	0	20:00	0.06	5312	JUNCTION	0.06	0.06	19.35	0	19:17	0.06
5263	JUNCTION	0.06	0.06	8.24	0	08:00	0.06	5313	JUNCTION	0.06	0.07	19.07	0	07:26	0.07
5264	JUNCTION	0.06	0.07	5.68	0	20:00	0.07	5314	JUNCTION	0.06	0.07	18.89	0	07:47	0.07
5265	JUNCTION	0.06	0.07	5.38	0	20:00	0.07	5315	JUNCTION	0.06	0.07	18.62	0	07:52	0.07
5266	JUNCTION	0.06	0.08	5.19	0	08:00	0.08	5316	JUNCTION	0.06	0.07	18.53	0	07:50	0.07
5267	JUNCTION	0.06	0.07	5.11	0	20:00	0.07	5317	JUNCTION	0.06	0.07	18.20	0	07:55	0.07
5268	JUNCTION	0.05	0.06	5.68	0	07:23	0.06	5318	JUNCTION	0.06	0.07	17.54	0	07:54	0.07
5269	JUNCTION	0.05	0.06	6.86	0	07:23	0.06	5319	JUNCTION	0.06	0.07	16.22	0	07:37	0.07
5270	JUNCTION	0.05	0.06	8.86	0	07:23	0.06	5320	JUNCTION	0.06	0.07	15.72	0	07:59	0.07
5271	JUNCTION	0.05	0.06	9.31	0	07:22	0.06	5321	JUNCTION	0.07	0.08	14.91	0	07:58	0.08
5272	JUNCTION	0.05	0.06	10.28	0	19:22	0.06	5322	JUNCTION	0.07	0.09	13.29	0	19:27	0.09
5273	JUNCTION	0.05	0.06	11.43	0	07:21	0.06	5323	JUNCTION	0.08	0.09	12.94	0	19:27	0.09
5274	JUNCTION	0.05	0.06	13.92	0	07:21	0.06	5325	JUNCTION	0.06	0.07	12.54	0	07:37	0.07
5287	JUNCTION	0.06	0.07	13.57	0	07:36	0.07	5326	JUNCTION	0.07	0.07	11.31	0	07:37	0.07
5288	JUNCTION	0.07	0.08	14.06	0	07:34	0.08	5327	JUNCTION	0.07	0.07	10.23	0	07:31	0.07
5289	JUNCTION	0.07	0.08	14.28	0	07:04	0.08	5328	JUNCTION	0.07	0.08	9.08	0	19:56	0.08
5292	JUNCTION	0.06	0.07	14.87	0	07:24	0.07	5329	JUNCTION	0.07	0.09	8.44	0	07:29	0.09
5293	JUNCTION	0.06	0.06	16.28	0	07:17	0.06	5330	JUNCTION	0.08	0.09	7.57	0	19:34	0.09
5294	JUNCTION	0.06	0.06	17.20	0	07:17	0.06	5331	JUNCTION	0.08	0.09	7.01	0	19:34	0.09
5295	JUNCTION	0.06	0.06	18.17	0	07:17	0.06	5332	JUNCTION	0.08	0.10	6.65	0	07:42	0.10
5296	JUNCTION	0.05	0.06	19.68	0	07:14	0.06	5333	JUNCTION	0.08	0.10	6.35	0	19:43	0.10
5297	JUNCTION	0.06	0.06	19.51	0	07:17	0.06	5334	JUNCTION	0.07	0.07	6.17	0	07:54	0.07
5298	JUNCTION	0.06	0.06	18.88	0	19:18	0.06	5337	JUNCTION	0.07	0.08	3.88	0	07:30	0.08
5299	JUNCTION	0.06	0.07	18.41	0	07:36	0.07	5338	JUNCTION	0.07	0.08	4.18	0	07:29	0.08
5300	JUNCTION	0.06	0.06	18.15	0	19:45	0.06	5339	JUNCTION	0.07	0.07	4.47	0	07:21	0.07
5303	JUNCTION	0.10	0.13	17.23	0	07:46	0.13	5340	JUNCTION	0.06	0.07	4.67	0	07:20	0.07
5304	JUNCTION	0.10	0.12	17.42	0	07:50	0.12	5342	JUNCTION	0.06	0.07	4.77	0	07:20	0.07
5306	JUNCTION	0.09	0.10	17.80	0	07:57	0.10	5343	JUNCTION	0.06	0.07	4.87	0	07:20	0.07

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

5344	JUNCTION	0.06	0.06	5.06	0	07:17	0.06	5537	JUNCTION	0.08	0.09	4.79	0	07:56	0.09
5503	JUNCTION	0.11	0.14	2.94	0	20:00	0.14	5538	JUNCTION	0.07	0.09	4.59	0	07:57	0.09
5504	JUNCTION	0.15	0.21	3.21	0	20:00	0.21	5539	JUNCTION	0.03	0.04	4.14	0	07:59	0.04
5505	JUNCTION	0.13	0.17	3.42	0	20:00	0.17	5540	JUNCTION	0.09	0.11	4.01	0	20:00	0.11
5506	JUNCTION	0.14	0.19	3.59	0	20:00	0.19	5541	JUNCTION	0.06	0.06	4.16	0	07:10	0.06
5507	JUNCTION	0.14	0.18	3.78	0	20:00	0.18	5542	JUNCTION	0.05	0.05	6.49	0	07:07	0.05
5508	JUNCTION	0.07	0.09	4.10	0	20:00	0.09	600	JUNCTION	0.05	0.05	18.30	0	07:22	0.05
5509	JUNCTION	0.08	0.10	4.46	0	20:00	0.10	601	JUNCTION	0.05	0.05	18.47	0	07:21	0.05
5510	JUNCTION	0.08	0.09	4.66	0	20:00	0.09	602	JUNCTION	0.05	0.06	18.02	0	07:25	0.06
5511	JUNCTION	0.08	0.09	5.27	0	20:00	0.09	603	JUNCTION	0.05	0.06	17.59	0	07:27	0.06
5512	JUNCTION	0.08	0.09	5.89	0	20:00	0.09	604	JUNCTION	0.05	0.06	16.87	0	07:28	0.06
5513	JUNCTION	0.08	0.10	6.10	0	20:00	0.10	606	JUNCTION	0.05	0.06	16.67	0	07:29	0.06
5514	JUNCTION	0.08	0.10	6.20	0	20:00	0.10	607	JUNCTION	0.01	0.01	16.11	0	07:08	0.01
5515	JUNCTION	0.08	0.10	6.30	0	20:00	0.10	608	JUNCTION	0.06	0.06	15.96	0	07:08	0.06
5516	JUNCTION	0.08	0.10	6.50	0	20:00	0.10	609	JUNCTION	0.05	0.05	18.51	0	07:24	0.05
5517	JUNCTION	0.08	0.10	6.70	0	20:00	0.10	611	JUNCTION	0.05	0.06	21.50	0	19:59	0.06
5518	JUNCTION	0.08	0.09	6.96	0	20:00	0.09	612	JUNCTION	0.05	0.06	21.86	0	20:00	0.06
5519	JUNCTION	0.08	0.10	7.12	0	20:00	0.10	613	JUNCTION	0.05	0.05	22.44	0	07:40	0.05
5520	JUNCTION	0.05	0.06	7.45	0	07:16	0.06	660	JUNCTION	0.08	0.09	8.15	0	20:00	0.09
5521	JUNCTION	0.05	0.05	7.93	0	07:15	0.05	661	JUNCTION	0.09	0.10	9.62	0	20:00	0.10
5522	JUNCTION	0.06	0.06	7.66	0	07:25	0.06	662	JUNCTION	0.08	0.09	11.05	0	20:00	0.09
5523	JUNCTION	0.06	0.06	7.46	0	07:22	0.06	663	JUNCTION	0.09	0.11	12.01	0	20:00	0.11
5524	JUNCTION	0.06	0.06	7.26	0	07:24	0.06	664	JUNCTION	0.11	0.13	12.13	0	20:00	0.13
5527	JUNCTION	0.07	0.08	6.78	0	07:52	0.08	665	JUNCTION	0.10	0.13	12.23	0	20:00	0.13
5528	JUNCTION	0.07	0.08	6.58	0	19:52	0.08	666	JUNCTION	0.10	0.11	12.41	0	20:00	0.11
5529	JUNCTION	0.07	0.08	6.38	0	07:48	0.08	667	JUNCTION	0.10	0.12	12.62	0	20:00	0.12
5530	JUNCTION	0.07	0.09	6.09	0	07:53	0.09	668	JUNCTION	0.10	0.13	12.83	0	20:00	0.13
5531	JUNCTION	0.07	0.08	5.88	0	07:55	0.08	669	JUNCTION	0.10	0.12	13.02	0	20:00	0.12
5532	JUNCTION	0.07	0.08	5.68	0	07:56	0.08	670	JUNCTION	0.11	0.14	13.24	0	20:00	0.14
5533	JUNCTION	0.07	0.08	5.48	0	07:57	0.08	671	JUNCTION	0.11	0.13	13.43	0	20:00	0.13
5534	JUNCTION	0.07	0.09	5.29	0	07:57	0.09	672	JUNCTION	0.10	0.12	13.62	0	20:00	0.12
5535	JUNCTION	0.08	0.09	5.09	0	08:00	0.09	673	JUNCTION	0.10	0.12	13.82	0	20:00	0.12
5536	JUNCTION	0.07	0.09	4.99	0	19:56	0.09	674	JUNCTION	0.11	0.14	14.04	0	20:00	0.14

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

675	JUNCTION	0.11	0.14	14.14	0	20:00	0.14	741	JUNCTION	0.06	0.06	24.45	0	07:43	0.06
676	JUNCTION	0.05	0.05	15.35	0	07:39	0.05	742	JUNCTION	0.05	0.06	24.59	0	07:10	0.06
677	JUNCTION	0.05	0.06	15.61	0	07:46	0.06	743	JUNCTION	0.09	0.10	24.51	0	07:29	0.10
678	JUNCTION	0.05	0.06	15.77	0	07:29	0.06	744	JUNCTION	0.06	0.07	24.50	0	07:25	0.07
679	JUNCTION	0.05	0.06	16.01	0	07:29	0.06	745	JUNCTION	0.06	0.06	24.46	0	07:48	0.06
680	JUNCTION	0.05	0.06	16.16	0	07:29	0.06	746	JUNCTION	0.06	0.07	24.17	0	07:49	0.07
682	JUNCTION	0.05	0.05	16.40	0	07:23	0.05	747	JUNCTION	0.07	0.07	24.07	0	07:23	0.07
688	JUNCTION	0.05	0.05	10.56	0	07:22	0.05	748	JUNCTION	0.06	0.07	23.87	0	07:23	0.07
689	JUNCTION	0.05	0.05	9.95	0	07:23	0.05	749	JUNCTION	0.06	0.07	23.21	0	07:47	0.07
690	JUNCTION	0.05	0.06	9.76	0	07:27	0.06	750	JUNCTION	0.07	0.07	20.87	0	19:55	0.07
691	JUNCTION	0.05	0.06	9.56	0	07:29	0.06	751	JUNCTION	0.07	0.07	20.47	0	07:46	0.07
692	JUNCTION	0.05	0.06	9.26	0	07:29	0.06	752	JUNCTION	0.09	0.11	20.30	0	20:00	0.11
693	JUNCTION	0.08	0.10	9.07	0	20:00	0.10	753	JUNCTION	0.16	0.20	11.58	0	07:57	0.20
722	JUNCTION	0.08	0.10	16.30	0	07:56	0.10	754	JUNCTION	0.10	0.13	11.55	0	19:51	0.13
723	JUNCTION	0.07	0.09	16.39	0	07:54	0.09	755	JUNCTION	0.07	0.08	11.45	0	07:51	0.08
724	JUNCTION	0.07	0.09	16.62	0	07:51	0.09	756	JUNCTION	0.08	0.09	8.80	0	07:51	0.09
725	JUNCTION	0.07	0.08	17.08	0	07:48	0.08	757	JUNCTION	0.09	0.11	7.84	0	07:53	0.11
726	JUNCTION	0.07	0.08	17.82	0	07:44	0.08	758	JUNCTION	0.10	0.13	7.57	0	07:51	0.13
727	JUNCTION	0.07	0.08	18.46	0	07:50	0.08	759	JUNCTION	0.09	0.12	7.41	0	07:48	0.12
728	JUNCTION	0.07	0.08	18.79	0	07:50	0.08	760	JUNCTION	0.10	0.12	7.22	0	07:48	0.12
729	JUNCTION	0.07	0.08	19.11	0	19:51	0.08	761	JUNCTION	0.10	0.12	7.02	0	07:49	0.12
730	JUNCTION	0.07	0.08	19.26	0	19:53	0.08	762	JUNCTION	0.10	0.13	6.83	0	07:49	0.13
731	JUNCTION	0.07	0.09	19.41	0	07:48	0.09	763	JUNCTION	0.10	0.13	6.73	0	07:58	0.13
732	JUNCTION	0.07	0.08	19.74	0	07:39	0.08	764	JUNCTION	0.10	0.13	6.63	0	07:58	0.13
733	JUNCTION	0.07	0.08	20.24	0	07:39	0.08	765	JUNCTION	0.10	0.14	6.54	0	07:58	0.14
734	JUNCTION	0.07	0.07	20.64	0	19:14	0.07	766	JUNCTION	0.10	0.13	6.43	0	19:54	0.13
735	JUNCTION	0.07	0.08	21.31	0	19:35	0.08	767	JUNCTION	0.08	0.09	6.19	0	07:50	0.09
736	JUNCTION	0.06	0.07	21.69	0	07:34	0.07	768	JUNCTION	0.10	0.13	4.28	0	07:56	0.13
737	JUNCTION	0.06	0.07	22.23	0	07:32	0.07	769	JUNCTION	0.08	0.10	4.10	0	07:52	0.10
738	JUNCTION	0.06	0.07	23.01	0	07:32	0.07	773	JUNCTION	0.90	1.00	11.23	0	04:43	1.00
739	JUNCTION	0.06	0.06	24.02	0	07:31	0.06	78	JUNCTION	0.06	0.06	10.06	0	07:24	0.06
74	JUNCTION	0.10	0.12	11.72	0	06:08	0.12	79	JUNCTION	0.07	0.07	10.27	0	19:24	0.07
740	JUNCTION	0.06	0.07	24.25	0	07:59	0.07	80	JUNCTION	0.06	0.07	10.48	0	19:02	0.07

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

81	JUNCTION	0.05	0.06	15.52	0 07:08	0.06	85	JUNCTION	0.06	0.06	14.97	0 07:18	0.06
813	JUNCTION	0.14	0.18	1.33	0 07:59	0.18	850	JUNCTION	0.06	0.07	6.21	0 07:26	0.07
814	JUNCTION	0.14	0.18	0.98	0 20:00	0.18	851	JUNCTION	0.06	0.07	10.33	0 07:25	0.07
816	JUNCTION	0.10	0.13	3.63	0 07:56	0.13	852	JUNCTION	0.06	0.07	12.07	0 07:25	0.07
817	JUNCTION	0.10	0.12	3.92	0 07:34	0.12	853	JUNCTION	0.06	0.07	13.53	0 07:25	0.07
818	JUNCTION	0.10	0.12	4.02	0 07:51	0.12	854	JUNCTION	0.06	0.07	14.25	0 07:24	0.07
82	JUNCTION	0.06	0.06	15.68	0 07:11	0.06	855	JUNCTION	0.06	0.07	15.09	0 07:24	0.07
820	JUNCTION	0.08	0.09	3.79	0 07:48	0.09	856	JUNCTION	0.06	0.07	16.01	0 07:23	0.07
821	JUNCTION	0.08	0.10	3.90	0 07:22	0.10	857	JUNCTION	0.06	0.07	17.08	0 19:23	0.07
822	JUNCTION	0.08	0.10	4.00	0 07:41	0.10	858	JUNCTION	0.06	0.07	17.93	0 07:23	0.07
823	JUNCTION	0.08	0.09	4.09	0 07:22	0.09	859	JUNCTION	0.06	0.06	19.52	0 07:22	0.06
824	JUNCTION	0.08	0.09	4.19	0 07:59	0.09	86	JUNCTION	0.06	0.06	14.48	0 07:19	0.06
825	JUNCTION	0.08	0.09	4.29	0 07:42	0.09	860	JUNCTION	0.06	0.07	19.86	0 07:22	0.07
826	JUNCTION	0.07	0.09	4.39	0 07:39	0.09	863	JUNCTION	0.10	0.12	20.02	0 20:00	0.12
827	JUNCTION	0.07	0.08	4.48	0 07:19	0.08	864	JUNCTION	0.10	0.13	19.83	0 20:00	0.13
828	JUNCTION	0.07	0.08	4.58	0 19:39	0.08	865	JUNCTION	0.09	0.12	19.72	0 20:00	0.11
829	JUNCTION	0.07	0.08	4.68	0 19:39	0.08	866	JUNCTION	0.11	0.15	19.55	0 20:00	0.15
83	JUNCTION	0.05	0.06	16.07	0 07:19	0.06	867	JUNCTION	0.11	0.15	19.45	0 20:00	0.15
830	JUNCTION	0.07	0.08	4.88	0 07:39	0.08	868	JUNCTION	0.11	0.14	19.34	0 20:00	0.14
831	JUNCTION	0.07	0.08	4.98	0 19:17	0.08	87	JUNCTION	0.09	0.11	11.31	0 07:46	0.11
832	JUNCTION	0.07	0.07	5.07	0 07:34	0.07	871	JUNCTION	0.11	0.13	22.79	0 07:00	0.13
833	JUNCTION	0.06	0.07	5.27	0 07:27	0.07	872	JUNCTION	0.11	0.13	22.63	0 07:00	0.13
834	JUNCTION	0.06	0.07	5.37	0 07:17	0.07	873	JUNCTION	0.11	0.13	22.43	0 07:02	0.13
835	JUNCTION	0.06	0.07	5.47	0 07:17	0.07	874	JUNCTION	0.11	0.12	22.22	0 19:01	0.12
836	JUNCTION	0.06	0.06	5.66	0 07:12	0.06	878	JUNCTION	0.06	0.06	24.32	0 07:34	0.06
84	JUNCTION	0.06	0.06	15.51	0 07:12	0.06	879	JUNCTION	0.06	0.06	24.06	0 07:27	0.06
843	JUNCTION	0.07	0.08	2.63	0 08:00	0.08	880	JUNCTION	0.06	0.06	23.56	0 19:33	0.06
844	JUNCTION	0.07	0.08	2.78	0 08:00	0.08	881	JUNCTION	0.06	0.06	22.70	0 19:51	0.06
845	JUNCTION	0.07	0.08	2.98	0 08:00	0.08	882	JUNCTION	0.06	0.06	22.54	0 19:53	0.06
846	JUNCTION	0.07	0.08	3.23	0 08:00	0.08	883	JUNCTION	0.06	0.06	22.32	0 19:55	0.06
847	JUNCTION	0.08	0.10	3.28	0 08:00	0.10	884	JUNCTION	0.06	0.07	21.94	0 19:55	0.07
848	JUNCTION	0.07	0.08	3.42	0 07:28	0.08	885	JUNCTION	0.06	0.06	21.63	0 19:54	0.06
849	JUNCTION	0.06	0.07	3.77	0 07:28	0.07	886	JUNCTION	0.05	0.06	21.02	0 07:21	0.06

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

887	JUNCTION	0.06	0.07	21.11	0	07:21	0.07	937	JUNCTION	0.07	0.07	23.07	0	19:59	0.07
888	JUNCTION	0.06	0.06	21.14	0	19:05	0.06	938	JUNCTION	0.07	0.08	23.28	0	07:57	0.08
889	JUNCTION	0.05	0.06	21.32	0	07:24	0.06	939	JUNCTION	0.07	0.08	23.48	0	19:53	0.08
89	JUNCTION	0.03	0.04	11.34	0	19:10	0.04	94	JUNCTION	0.06	0.06	8.03	0	07:39	0.06
890	JUNCTION	0.05	0.06	21.60	0	07:24	0.06	940	JUNCTION	0.07	0.08	23.78	0	07:52	0.08
891	JUNCTION	0.05	0.06	22.18	0	07:24	0.06	941	JUNCTION	0.05	0.06	23.96	0	20:00	0.06
892	JUNCTION	0.05	0.05	22.50	0	07:22	0.05	942	JUNCTION	0.05	0.06	24.26	0	07:49	0.06
893	JUNCTION	0.05	0.05	22.63	0	07:24	0.05	943	JUNCTION	0.05	0.05	24.43	0	19:27	0.05
894	JUNCTION	0.05	0.05	22.51	0	07:24	0.05	949	JUNCTION	0.07	0.09	21.88	0	20:00	0.09
896	JUNCTION	0.06	0.06	22.13	0	07:36	0.06	95	JUNCTION	0.06	0.06	7.15	0	07:40	0.06
897	JUNCTION	0.05	0.06	22.10	0	19:40	0.06	950	JUNCTION	0.08	0.10	21.84	0	20:00	0.10
898	JUNCTION	0.06	0.06	21.99	0	19:38	0.06	952	JUNCTION	0.07	0.08	21.78	0	20:00	0.08
899	JUNCTION	0.05	0.06	21.81	0	19:45	0.06	953	JUNCTION	0.07	0.09	21.49	0	20:00	0.09
90	JUNCTION	0.05	0.06	11.96	0	07:15	0.06	954	JUNCTION	0.06	0.07	21.17	0	20:00	0.07
900	JUNCTION	0.06	0.06	21.49	0	19:40	0.06	955	JUNCTION	0.06	0.07	21.07	0	20:00	0.07
901	JUNCTION	0.05	0.06	21.38	0	07:38	0.06	956	JUNCTION	0.07	0.08	20.88	0	20:00	0.08
902	JUNCTION	0.06	0.06	20.60	0	19:42	0.06	958	JUNCTION	0.06	0.07	22.27	0	07:57	0.07
903	JUNCTION	0.06	0.06	20.34	0	07:57	0.06	959	JUNCTION	0.06	0.07	22.47	0	07:21	0.07
904	JUNCTION	0.06	0.06	20.16	0	07:41	0.06	96	JUNCTION	0.05	0.06	5.37	0	07:39	0.06
905	JUNCTION	0.06	0.06	20.06	0	07:48	0.06	960	JUNCTION	0.06	0.06	22.66	0	19:55	0.06
906	JUNCTION	0.06	0.06	19.86	0	07:56	0.06	961	JUNCTION	0.06	0.06	22.86	0	07:55	0.06
907	JUNCTION	0.06	0.07	19.67	0	19:59	0.07	962	JUNCTION	0.06	0.06	23.06	0	07:53	0.06
908	JUNCTION	0.06	0.07	19.47	0	07:50	0.07	963	JUNCTION	0.06	0.07	23.17	0	08:00	0.07
909	JUNCTION	0.06	0.07	19.27	0	07:50	0.07	964	JUNCTION	0.06	0.06	23.26	0	07:44	0.06
91	JUNCTION	0.06	0.06	11.08	0	07:25	0.06	965	JUNCTION	0.05	0.06	23.36	0	07:44	0.06
910	JUNCTION	0.06	0.07	19.17	0	07:40	0.07	966	JUNCTION	0.05	0.06	23.56	0	07:43	0.06
911	JUNCTION	0.06	0.07	19.07	0	19:52	0.07	967	JUNCTION	0.05	0.06	23.76	0	07:29	0.06
912	JUNCTION	0.06	0.07	18.97	0	07:52	0.07	968	JUNCTION	0.05	0.06	23.96	0	07:26	0.06
913	JUNCTION	0.01	0.02	18.77	0	07:59	0.02	969	JUNCTION	0.05	0.05	24.05	0	07:25	0.05
914	JUNCTION	0.04	0.06	18.66	0	07:48	0.06	97	JUNCTION	0.11	0.14	2.04	0	19:43	0.14
92	JUNCTION	0.06	0.06	10.40	0	07:03	0.06	970	JUNCTION	0.05	0.05	24.27	0	07:21	0.05
93	JUNCTION	0.06	0.06	9.50	0	07:29	0.06	972	JUNCTION	0.05	0.05	24.06	0	07:24	0.05
936	JUNCTION	0.06	0.07	22.97	0	07:58	0.07	973	JUNCTION	0.05	0.06	23.45	0	07:27	0.06



*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

974	JUNCTION	0.05	0.06	23.14	0	07:31	0.06	111	JUNCTION	0.10	0.13	1.68	0	07:55	0.13
975	JUNCTION	0.05	0.06	21.33	0	19:34	0.06	112	JUNCTION	0.06	0.06	15.06	0	19:18	0.06
976	JUNCTION	0.05	0.06	20.89	0	19:34	0.06	113	JUNCTION	0.06	0.06	18.53	0	07:15	0.06
977	JUNCTION	0.06	0.06	20.70	0	07:32	0.06	114	JUNCTION	0.08	0.10	7.60	0	07:52	0.10
978	JUNCTION	0.06	0.06	20.64	0	07:34	0.06	115	JUNCTION	0.10	0.12	13.92	0	07:56	0.12
979	JUNCTION	0.06	0.07	20.57	0	07:55	0.07	116	JUNCTION	0.09	0.11	14.41	0	07:47	0.11
980	JUNCTION	0.06	0.07	20.56	0	07:48	0.07	117	JUNCTION	0.08	0.10	15.10	0	19:47	0.10
981	JUNCTION	0.05	0.06	20.37	0	07:55	0.06	118	JUNCTION	0.08	0.09	17.69	0	07:38	0.09
982	JUNCTION	0.05	0.06	20.45	0	07:33	0.06	119	JUNCTION	0.05	0.06	20.06	0	07:21	0.06
983	JUNCTION	0.05	0.05	20.75	0	07:29	0.05	120	JUNCTION	0.11	0.15	8.60	0	19:59	0.15
987	JUNCTION	0.57	1.00	21.70	0	19:20	1.00	121	JUNCTION	0.12	0.16	7.66	0	07:58	0.16
989	JUNCTION	0.09	0.11	4.31	0	07:51	0.11	154	JUNCTION	0.11	0.15	7.15	0	07:57	0.15
99	JUNCTION	0.10	0.13	2.23	0	07:29	0.13	213	JUNCTION	0.12	0.16	6.96	0	07:59	0.16
990	JUNCTION	0.09	0.11	4.51	0	07:42	0.11	214	JUNCTION	0.12	0.16	7.51	0	07:57	0.16
991	JUNCTION	0.09	0.11	4.71	0	07:41	0.11	215	JUNCTION	0.09	0.11	3.61	0	07:34	0.11
992	JUNCTION	0.09	0.10	5.10	0	07:42	0.10	216	JUNCTION	0.11	0.14	5.54	0	07:52	0.14
993	JUNCTION	0.07	0.07	6.43	0	07:58	0.07	217	JUNCTION	0.12	0.16	5.76	0	19:59	0.16
994	JUNCTION	0.15	0.18	6.50	0	07:36	0.18	218	JUNCTION	0.12	0.17	6.17	0	07:54	0.17
995	JUNCTION	0.07	0.08	8.74	0	07:44	0.08	240	JUNCTION	0.12	0.16	6.66	0	19:50	0.16
996	JUNCTION	0.08	0.09	8.99	0	07:44	0.09	241	JUNCTION	0.11	0.15	8.25	0	07:48	0.15
997	JUNCTION	0.09	0.11	9.11	0	07:29	0.11	242	JUNCTION	0.09	0.11	10.11	0	07:58	0.11
998	JUNCTION	0.08	0.10	9.20	0	19:43	0.10	243	JUNCTION	0.10	0.12	12.52	0	07:56	0.12
999	JUNCTION	0.08	0.10	9.30	0	19:37	0.10	259	JUNCTION	0.12	0.15	13.20	0	07:54	0.15
75	JUNCTION	0.05	0.06	16.56	0	07:24	0.06	260	JUNCTION	0.10	0.13	15.13	0	07:55	0.13
76	JUNCTION	0.06	0.07	8.07	0	07:40	0.07	261	JUNCTION	0.09	0.10	16.10	0	19:51	0.10
77	JUNCTION	0.09	0.10	4.90	0	07:41	0.10	262	JUNCTION	0.06	0.07	7.42	0	07:26	0.07
88	JUNCTION	0.06	0.07	16.07	0	20:00	0.07	263	JUNCTION	0.06	0.07	8.57	0	07:26	0.07
98	JUNCTION	0.05	0.06	20.06	0	19:59	0.06	264	JUNCTION	0.06	0.07	4.99	0	19:27	0.07
106	JUNCTION	0.05	0.06	22.06	0	07:45	0.06	265	JUNCTION	0.07	0.08	3.08	0	08:00	0.08
107	JUNCTION	0.09	0.11	3.11	0	07:56	0.11	266	JUNCTION	0.12	0.16	2.46	0	20:00	0.16
108	JUNCTION	0.11	0.14	2.59	0	20:00	0.14	1	JUNCTION	0.01	0.01	16.15	0	07:03	0.01
109	JUNCTION	0.11	0.14	2.89	0	20:00	0.14	6	JUNCTION	0.01	0.01	15.41	0	07:09	0.01
110	JUNCTION	0.10	0.13	2.03	0	19:54	0.13	7	JUNCTION	0.01	0.01	14.13	0	19:10	0.01

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

8	JUNCTION	0.01	0.01	13.15	0	19:11	0.01	41	JUNCTION	0.07	0.09	2.49	0	07:20	0.09
9	JUNCTION	0.01	0.01	11.89	0	07:12	0.01	42	JUNCTION	0.07	0.10	2.64	0	19:19	0.10
10	JUNCTION	0.01	0.01	10.36	0	19:12	0.01	43	JUNCTION	0.03	0.05	3.65	0	19:19	0.05
11	JUNCTION	0.01	0.02	9.92	0	07:12	0.02	44	JUNCTION	0.06	0.08	3.78	0	07:19	0.08
12	JUNCTION	0.01	0.02	9.79	0	19:12	0.02	45	JUNCTION	0.06	0.09	3.89	0	07:19	0.09
13	JUNCTION	0.01	0.01	8.92	0	19:13	0.01	46	JUNCTION	0.06	0.08	3.98	0	07:18	0.08
14	JUNCTION	0.01	0.02	7.32	0	20:00	0.02	47	JUNCTION	0.06	0.09	4.09	0	19:18	0.09
15	JUNCTION	0.02	0.03	5.73	0	20:00	0.03	48	JUNCTION	0.07	0.09	4.19	0	07:18	0.09
16	JUNCTION	0.02	0.03	5.63	0	08:00	0.03	49	JUNCTION	0.05	0.06	4.36	0	07:18	0.06
17	JUNCTION	0.02	0.04	5.49	0	08:00	0.04	50	JUNCTION	0.05	0.07	4.47	0	07:18	0.07
18	JUNCTION	0.02	0.03	5.38	0	08:00	0.03	51	JUNCTION	0.06	0.08	4.70	0	07:18	0.08
19	JUNCTION	0.03	0.04	5.24	0	20:00	0.04	52	JUNCTION	0.05	0.06	5.59	0	19:18	0.06
20	JUNCTION	0.03	0.04	5.14	0	20:00	0.04	53	JUNCTION	0.05	0.06	6.21	0	07:17	0.06
21	JUNCTION	0.03	0.04	5.04	0	20:00	0.04	54	JUNCTION	0.06	0.08	6.38	0	07:17	0.08
22	JUNCTION	0.02	0.04	4.84	0	08:00	0.04	55	JUNCTION	0.05	0.08	6.48	0	19:17	0.08
23	JUNCTION	0.02	0.04	4.64	0	08:00	0.04	56	JUNCTION	0.05	0.07	6.57	0	19:17	0.07
24	JUNCTION	0.02	0.03	4.43	0	20:00	0.03	57	JUNCTION	0.05	0.06	7.10	0	07:17	0.06
25	JUNCTION	0.04	0.06	3.36	0	08:00	0.06	58	JUNCTION	0.05	0.07	7.57	0	19:17	0.07
26	JUNCTION	0.03	0.05	3.25	0	08:00	0.05	59	JUNCTION	0.05	0.07	7.92	0	19:17	0.07
27	JUNCTION	0.04	0.06	3.06	0	08:00	0.06	60	JUNCTION	0.05	0.06	8.26	0	07:16	0.06
28	JUNCTION	0.02	0.04	2.94	0	08:00	0.04	61	JUNCTION	0.03	0.05	8.65	0	07:16	0.05
29	JUNCTION	0.03	0.05	2.65	0	08:00	0.05	62	JUNCTION	0.03	0.04	8.84	0	07:15	0.04
30	JUNCTION	0.02	0.02	2.42	0	20:00	0.02	63	JUNCTION	0.03	0.05	8.95	0	19:15	0.05
31	JUNCTION	0.07	0.11	0.21	0	20:00	0.11	64	JUNCTION	0.02	0.04	9.14	0	19:15	0.04
32	JUNCTION	0.06	0.09	0.29	0	19:14	0.09	65	JUNCTION	0.02	0.04	9.39	0	19:14	0.04
33	JUNCTION	0.06	0.08	0.48	0	20:00	0.08	66	JUNCTION	0.02	0.04	9.59	0	07:14	0.04
34	JUNCTION	0.06	0.08	0.68	0	20:00	0.08	67	JUNCTION	0.02	0.04	10.04	0	19:14	0.04
35	JUNCTION	0.06	0.08	0.88	0	20:00	0.08	68	JUNCTION	0.03	0.04	10.24	0	07:13	0.04
36	JUNCTION	0.05	0.07	1.02	0	20:00	0.07	69	JUNCTION	0.03	0.04	10.44	0	19:13	0.04
37	JUNCTION	0.07	0.10	1.70	0	19:22	0.10	70	JUNCTION	0.03	0.04	10.64	0	07:12	0.04
38	JUNCTION	0.06	0.09	1.89	0	19:21	0.09	71	JUNCTION	0.02	0.03	10.88	0	19:12	0.03
39	JUNCTION	0.07	0.10	2.05	0	07:21	0.10	72	JUNCTION	0.03	0.04	11.44	0	07:11	0.04
40	JUNCTION	0.07	0.09	2.24	0	19:20	0.09	73	JUNCTION	0.03	0.04	11.54	0	07:10	0.04

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

267	JUNCTION	0.02	0.03	11.73	0	07:10	0.03	351	JUNCTION	0.02	0.03	12.54	0	07:46	0.03
268	JUNCTION	0.03	0.04	12.04	0	07:07	0.04	352	JUNCTION	0.02	0.03	11.95	0	19:54	0.03
269	JUNCTION	0.02	0.03	12.38	0	19:09	0.03	353	JUNCTION	0.02	0.03	10.70	0	07:55	0.03
270	JUNCTION	0.02	0.03	12.72	0	19:08	0.03	354	JUNCTION	0.02	0.03	9.67	0	07:49	0.03
271	JUNCTION	0.02	0.03	12.85	0	19:08	0.03	355	JUNCTION	0.02	0.03	7.99	0	19:52	0.03
272	JUNCTION	0.02	0.03	13.21	0	19:08	0.03	356	JUNCTION	0.02	0.03	6.43	0	07:55	0.03
273	JUNCTION	0.02	0.03	13.61	0	07:06	0.03	357	JUNCTION	0.02	0.03	5.51	0	07:55	0.03
274	JUNCTION	0.02	0.02	13.93	0	07:07	0.02	358	JUNCTION	0.02	0.03	3.03	0	07:56	0.03
275	JUNCTION	0.02	0.03	14.19	0	19:05	0.03	360	JUNCTION	0.03	0.06	2.46	0	20:00	0.06
276	JUNCTION	0.01	0.02	14.61	0	19:33	0.02	361	JUNCTION	0.02	0.03	2.83	0	19:47	0.03
277	JUNCTION	0.01	0.02	14.98	0	07:23	0.02	362	JUNCTION	0.03	0.04	3.04	0	07:44	0.04
278	JUNCTION	0.01	0.02	15.60	0	07:34	0.02	363	JUNCTION	0.02	0.03	3.28	0	07:44	0.03
279	JUNCTION	0.01	0.02	16.35	0	07:14	0.02	364	JUNCTION	0.02	0.03	3.43	0	07:40	0.03
280	JUNCTION	0.01	0.02	17.52	0	07:54	0.02	365	JUNCTION	0.02	0.03	3.63	0	07:40	0.03
281	JUNCTION	0.01	0.02	17.86	0	07:54	0.02	366	JUNCTION	0.02	0.03	3.83	0	07:33	0.03
282	JUNCTION	0.01	0.01	18.21	0	07:48	0.01	367	JUNCTION	0.02	0.02	4.39	0	07:33	0.02
283	JUNCTION	0.01	0.01	18.74	0	07:38	0.01	368	JUNCTION	0.01	0.02	4.59	0	07:30	0.02
284	JUNCTION	0.01	0.01	19.02	0	07:41	0.01	369	JUNCTION	0.01	0.02	5.20	0	07:30	0.02
285	JUNCTION	0.01	0.01	20.45	0	07:34	0.01	370	JUNCTION	0.01	0.02	5.81	0	07:50	0.02
286	JUNCTION	0.00	0.00	21.68	0	19:23	0.00	371	JUNCTION	0.02	0.02	6.02	0	19:47	0.02
287	JUNCTION	0.01	0.01	21.23	0	19:33	0.01	372	JUNCTION	0.01	0.02	6.22	0	07:29	0.02
288	JUNCTION	0.01	0.01	20.83	0	07:33	0.01	373	JUNCTION	0.01	0.02	6.42	0	07:29	0.02
289	JUNCTION	0.01	0.01	20.48	0	07:44	0.01	374	JUNCTION	0.01	0.02	6.62	0	07:31	0.02
321	JUNCTION	0.01	0.02	20.12	0	19:43	0.02	375	JUNCTION	0.01	0.01	6.89	0	07:18	0.01
325	JUNCTION	0.01	0.02	19.92	0	07:44	0.02	376	JUNCTION	0.01	0.01	7.04	0	07:24	0.01
331	JUNCTION	0.01	0.02	19.72	0	19:43	0.02	377	JUNCTION	0.01	0.01	7.25	0	19:14	0.01
344	JUNCTION	0.01	0.01	19.51	0	07:52	0.01	378	JUNCTION	0.01	0.01	7.40	0	19:14	0.01
345	JUNCTION	0.03	0.04	18.64	0	19:57	0.04	379	JUNCTION	0.00	0.00	7.88	0	19:14	0.00
346	JUNCTION	0.03	0.04	18.44	0	19:57	0.04	380	JUNCTION	0.01	0.01	7.61	0	07:26	0.01
347	JUNCTION	0.02	0.03	18.04	0	19:55	0.03	381	JUNCTION	0.01	0.01	7.41	0	07:26	0.01
348	JUNCTION	0.02	0.03	16.72	0	19:57	0.03	382	JUNCTION	0.01	0.01	7.21	0	07:27	0.01
349	JUNCTION	0.02	0.03	14.88	0	19:55	0.03	383	JUNCTION	0.01	0.01	6.91	0	07:27	0.01
350	JUNCTION	0.02	0.03	13.89	0	07:56	0.03	384	JUNCTION	0.01	0.02	6.72	0	19:26	0.02

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

Node	Type	Inflow	Outflow	Storage	Time	Flow	Node	Type	Maximum Lateral Inflow LPS	Maximum Total Inflow LPS	Time of Max Occurrence hr:min	Lateral Inflow Volume 10 <sup>6</sup> ltr	Total Inflow Volume 10 <sup>6</sup> ltr	Flow Balance Error
385	JUNCTION	0.01	0.02	6.52	0 19:27	0.02								
386	JUNCTION	0.01	0.02	6.32	0 07:34	0.02								
387	JUNCTION	0.02	0.02	6.02	0 07:17	0.02								
388	JUNCTION	0.02	0.02	5.82	0 19:21	0.02								
389	JUNCTION	0.02	0.02	5.62	0 19:21	0.02								
390	JUNCTION	0.02	0.02	5.42	0 19:22	0.02								
391	JUNCTION	0.02	0.03	5.23	0 07:23	0.03								
392	JUNCTION	0.02	0.03	5.03	0 07:23	0.03								
393	JUNCTION	0.02	0.03	4.93	0 19:24	0.03								
394	JUNCTION	0.02	0.03	4.73	0 07:25	0.03								
395	JUNCTION	0.02	0.03	4.53	0 07:26	0.03								
396	JUNCTION	0.02	0.03	4.33	0 19:26	0.03	100	JUNCTION	0.03	10.21	0 07:38	0.00139	0.402	
397	JUNCTION	0.02	0.03	4.13	0 07:27	0.03	0.026							
398	JUNCTION	0.09	0.11	4.01	0 08:00	0.11	1000	JUNCTION	0.22	4.74	0 07:33	0.00874	0.187	
400	JUNCTION	0.06	0.08	1.23	0 20:00	0.08	0.042							
401	JUNCTION	0.01	0.02	4.03	0 07:31	0.02	1001	JUNCTION	0.22	4.52	0 07:32	0.00874	0.178	
2	OUTFALL	0.00	0.00	-0.20	0 00:00	0.00	0.000							
3	OUTFALL	0.00	0.00	0.00	0 00:00	0.00	1002	JUNCTION	0.22	2.98	0 07:28	0.00874	0.117	
4	OUTFALL	0.00	0.00	-0.40	0 00:00	0.00	0.066							
5	OUTFALL	0.00	0.00	0.00	0 00:00	0.00	1003	JUNCTION	0.22	2.76	0 07:24	0.00874	0.109	
439	STORAGE	0.00	0.01	5.71	0 08:18	0.01	0.083							
433	STORAGE	0.00	0.00	3.20	0 08:01	0.00	101	JUNCTION	0.22	10.18	0 07:36	0.00874	0.401	
5170	STORAGE	0.00	0.01	0.31	0 08:08	0.01	0.026							
310	STORAGE	0.00	0.00	10.40	0 00:00	0.00	1011	JUNCTION	0.03	0.03	0 07:00	0.00139	0.00139	
304	STORAGE	0.00	0.01	8.01	0 08:05	0.01	4.407							
1189	STORAGE	0.00	0.00	13.60	0 00:00	0.00	1012	JUNCTION	0.03	0.07	0 07:18	0.00139	0.00272	
3023	STORAGE	0.00	0.00	10.70	0 00:00	0.00	2.258							
3125	STORAGE	0.00	0.00	17.50	0 00:00	0.00	1016	JUNCTION	0.03	0.46	0 19:18	0.00139	0.0174	
236	STORAGE	0.00	0.00	18.20	0 00:00	0.00	0.373							
870	STORAGE	0.00	0.01	19.01	0 20:01	0.01	1017	JUNCTION	0.03	0.49	0 07:19	0.00139	0.0187	
3616	STORAGE	0.00	0.00	0.50	0 00:00	0.00	0.339							
							1018	JUNCTION	0.03	0.53	0 07:20	0.00139	0.02	
							0.331							

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

1019 0.283	JUNCTION	0.03	0.56	0	07:20	0.00139	0.0213	1039 0.145	JUNCTION	0.22	1.12	0	07:27	0.00874	0.0442
102 0.004	JUNCTION	0.22	9.96	0	07:36	0.00874	0.392	104 0.023	JUNCTION	0.22	9.52	0	07:35	0.00874	0.375
1020 0.205	JUNCTION	0.22	0.78	0	07:21	0.00874	0.03	1040 0.132	JUNCTION	0.22	1.34	0	07:23	0.00874	0.0529
1021 0.046	JUNCTION	0.11	3.77	0	07:57	0.00437	0.146	1041 0.115	JUNCTION	0.22	1.56	0	07:24	0.00874	0.0616
1024 0.269	JUNCTION	0.03	0.65	0	07:59	0.00139	0.0247	1042 0.102	JUNCTION	0.22	1.78	0	07:51	0.00874	0.0702
1025 0.245	JUNCTION	0.03	0.68	0	08:00	0.00139	0.026	105 0.000	JUNCTION	0.22	9.30	0	07:56	0.00874	0.366
1026 0.225	JUNCTION	0.03	0.72	0	08:00	0.00139	0.0273	1188 0.030	JUNCTION	0.22	9.71	0	07:45	0.00874	0.384
1027 0.225	JUNCTION	0.03	0.75	0	20:00	0.00139	0.0287	1190 0.030	JUNCTION	1.15	7.31	0	07:47	0.0457	0.289
1028 0.012	JUNCTION	0.11	2.16	0	08:00	0.00437	0.0841	1191 0.059	JUNCTION	0.22	5.01	0	07:47	0.00874	0.198
1029 0.112	JUNCTION	0.11	1.65	0	07:35	0.00437	0.0644	1192 0.048	JUNCTION	0.22	3.64	0	19:54	0.00874	0.144
103 0.057	JUNCTION	0.22	9.74	0	07:35	0.00874	0.383	1193 0.053	JUNCTION	0.58	3.42	0	07:44	0.0228	0.135
1034 0.077	JUNCTION	0.11	2.31	0	07:53	0.00437	0.0911	1194 0.107	JUNCTION	0.22	1.69	0	07:37	0.00874	0.0667
1035 0.014	JUNCTION	0.11	1.07	0	07:09	0.00437	0.0428	1195 0.117	JUNCTION	0.22	1.47	0	07:44	0.00874	0.058
1036 0.119	JUNCTION	1.43	1.43	0	07:00	0.0566	0.0566	1196 0.171	JUNCTION	0.22	1.25	0	07:22	0.00874	0.0493
1037 0.241	JUNCTION	0.22	0.68	0	07:10	0.00874	0.0269	1197 0.175	JUNCTION	0.22	1.03	0	07:23	0.00874	0.0407
1038 0.235	JUNCTION	0.22	0.90	0	07:09	0.00874	0.0355	1198 0.376	JUNCTION	0.22	0.44	0	07:21	0.00874	0.0174

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

1199 0.723	JUNCTION	0.22	0.22	0	07:00	0.00874	0.00874	130 1.710	JUNCTION	0.03	0.09	0	07:28	0.00139	0.00361
122 0.123	JUNCTION	0.11	1.49	0	07:34	0.00437	0.0584	131 2.691	JUNCTION	0.03	0.06	0	07:22	0.00139	0.00228
123 0.187	JUNCTION	0.22	0.89	0	19:39	0.00874	0.035	132 4.443	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139
124 0.254	JUNCTION	0.22	0.67	0	07:33	0.00874	0.0263	133 3.369	JUNCTION	0.03	0.05	0	07:22	0.00139	0.00183
125 0.371	JUNCTION	0.22	0.45	0	07:30	0.00874	0.0176	134 1.939	JUNCTION	0.03	0.08	0	07:32	0.00139	0.00316
1252 0.019	JUNCTION	0.11	9.30	0	07:54	0.00437	0.356	135 1.367	JUNCTION	0.03	0.12	0	19:33	0.00139	0.00449
1253 0.113	JUNCTION	0.22	1.42	0	07:19	0.00874	0.0563	136 1.059	JUNCTION	0.03	0.15	0	07:24	0.00139	0.00582
1254 0.147	JUNCTION	0.22	1.20	0	07:14	0.00874	0.0476	137 0.857	JUNCTION	0.03	0.19	0	07:42	0.00139	0.00715
1255 0.226	JUNCTION	0.22	0.76	0	07:11	0.00874	0.0302	138 0.723	JUNCTION	0.03	0.22	0	07:40	0.00139	0.00848
1256 0.483	JUNCTION	0.22	0.32	0	07:09	0.00874	0.0129	139 0.634	JUNCTION	0.03	0.26	0	07:24	0.00139	0.00981
1257 0.704	JUNCTION	0.22	0.22	0	07:00	0.00874	0.00874	140 0.554	JUNCTION	0.03	0.29	0	19:54	0.00139	0.0111
1258 0.431	JUNCTION	0.22	0.37	0	07:21	0.00874	0.0146	141 0.495	JUNCTION	0.03	0.33	0	07:49	0.00139	0.0125
126 0.722	JUNCTION	0.03	0.23	0	07:24	0.00139	0.00893	142 0.449	JUNCTION	0.03	0.36	0	07:29	0.00139	0.0138
127 0.821	JUNCTION	0.03	0.20	0	19:44	0.00139	0.0076	143 0.412	JUNCTION	0.03	0.40	0	07:29	0.00139	0.0151
128 0.953	JUNCTION	0.03	0.16	0	07:36	0.00139	0.00627	144 0.382	JUNCTION	0.03	0.43	0	07:29	0.00139	0.0165
129 1.280	JUNCTION	0.03	0.13	0	07:21	0.00139	0.00494	145 0.355	JUNCTION	0.03	0.47	0	07:36	0.00139	0.0178

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

146 0.345	JUNCTION	0.03	0.50	0	07:26	0.00139	0.0191	163 0.268	JUNCTION	0.03	0.56	0	07:23	0.00139	0.0216
147 0.335	JUNCTION	0.03	0.54	0	07:29	0.00139	0.0204	164 0.284	JUNCTION	0.03	0.60	0	07:26	0.00139	0.0229
148 0.294	JUNCTION	0.03	0.57	0	07:45	0.00139	0.0218	165 0.274	JUNCTION	0.03	0.63	0	07:26	0.00139	0.0243
149 0.282	JUNCTION	0.03	0.64	0	07:41	0.00139	0.0244	1650 0.298	JUNCTION	0.11	0.55	0	07:28	0.00437	0.0214
150 0.257	JUNCTION	0.03	0.68	0	19:49	0.00139	0.0257	1651 0.486	JUNCTION	0.22	0.33	0	07:29	0.00874	0.0127
151 0.286	JUNCTION	0.03	0.71	0	07:34	0.00139	0.0271	1652 1.519	JUNCTION	0.03	0.11	0	07:32	0.00139	0.00405
152 0.234	JUNCTION	0.03	0.75	0	07:40	0.00139	0.0284	1653 2.270	JUNCTION	0.03	0.07	0	07:27	0.00139	0.00272
153 0.218	JUNCTION	0.03	0.78	0	07:48	0.00139	0.0297	1654 4.495	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139
155 0.212	JUNCTION	0.03	0.82	0	07:35	0.00139	0.031	166 0.252	JUNCTION	0.03	0.67	0	07:27	0.00139	0.0256
156 0.203	JUNCTION	0.03	0.85	0	07:55	0.00139	0.0324	167 0.262	JUNCTION	0.03	0.70	0	19:27	0.00139	0.0269
157 0.193	JUNCTION	0.03	0.89	0	07:54	0.00139	0.0337	168 0.234	JUNCTION	0.03	0.74	0	07:30	0.00139	0.0282
158 0.194	JUNCTION	0.03	0.92	0	07:37	0.00139	0.035	169 0.371	JUNCTION	0.03	0.44	0	07:31	0.00139	0.0169
159 0.178	JUNCTION	0.03	0.96	0	19:50	0.00139	0.0363	170 0.359	JUNCTION	0.03	0.47	0	07:35	0.00139	0.0182
160 0.183	JUNCTION	0.03	0.99	0	07:46	0.00139	0.0377	171 0.331	JUNCTION	0.03	0.51	0	07:37	0.00139	0.0195
161 0.166	JUNCTION	0.03	1.03	0	07:46	0.00139	0.039	172 0.311	JUNCTION	0.03	0.54	0	07:37	0.00139	0.0208
162 0.361	JUNCTION	0.03	0.53	0	07:24	0.00139	0.0203	173 0.297	JUNCTION	0.03	0.58	0	07:37	0.00139	0.0222

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

1736	JUNCTION	0.11	2.88	0	19:55	0.00437	0.113	185	JUNCTION	0.03	1.81	0	07:41	0.00139	0.0687	
0.064								0.100								
1737	JUNCTION	0.03	0.07	0	07:33	0.00139	0.00272	186	JUNCTION	0.03	1.85	0	07:41	0.00139	0.07	0.115
2.303								187	JUNCTION	0.03	1.88	0	07:40	0.00139	0.0713	
1738	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	0.140								
4.519								188	JUNCTION	0.03	1.92	0	07:43	0.00139	0.0726	
174	JUNCTION	0.03	0.61	0	07:37	0.00139	0.0235	0.092								
0.280								189	JUNCTION	0.03	1.95	0	19:43	0.00139	0.0739	
175	JUNCTION	0.03	0.65	0	07:38	0.00139	0.0248	0.088								
0.261								190	JUNCTION	0.03	35.32	0	20:00	0.00139	1.51	
176	JUNCTION	0.03	0.68	0	07:38	0.00139	0.0261	0.021								
0.254								191	JUNCTION	0.03	33.33	0	20:00	0.00139	1.43	
177	JUNCTION	0.03	0.72	0	07:38	0.00139	0.0275	0.006								
0.242								192	JUNCTION	0.03	33.30	0	20:00	0.00139	1.43	
178	JUNCTION	0.03	0.75	0	07:39	0.00139	0.0288	0.005								
0.232								193	JUNCTION	0.03	33.26	0	20:00	0.00139	1.43	
179	JUNCTION	0.03	0.79	0	19:39	0.00139	0.0301	0.008								
0.223								194	JUNCTION	0.03	33.23	0	20:00	0.00139	1.43	
180	JUNCTION	0.03	0.82	0	19:39	0.00139	0.0314	0.008								
0.211								195	JUNCTION	0.03	33.19	0	20:00	0.00139	1.43	
181	JUNCTION	0.03	0.86	0	07:40	0.00139	0.0328	0.008								
0.201								196	JUNCTION	0.03	33.16	0	20:00	0.00139	1.43	
182	JUNCTION	0.03	0.89	0	07:40	0.00139	0.0341	0.005								
0.194								197	JUNCTION	0.03	33.12	0	20:00	0.00139	1.42	
183	JUNCTION	0.03	1.74	0	07:40	0.00139	0.066	0.008								
0.111								198	JUNCTION	0.03	33.09	0	20:00	0.00139	1.42	
184	JUNCTION	0.03	1.78	0	07:41	0.00139	0.0673	0.011								
0.103								199	JUNCTION	0.03	33.05	0	20:00	0.00139	1.42	
1840	JUNCTION	0.22	0.27	0	00:50	0.00874	0.00897	0.009								
3.544								200	JUNCTION	0.03	33.02	0	20:00	0.00139	1.42	
1841	JUNCTION	0.22	3.73	0	19:43	0.00874	0.147	0.007								
0.058								2008	JUNCTION	0.03	13.32	0	07:54	0.00139	0.526	
								0.023								



*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

201 0.008	JUNCTION	0.03	32.98	0	20:00	0.00139	1.42	2024 0.024	JUNCTION	0.03	17.00	0	07:52	0.00139	0.668
2010 0.027	JUNCTION	0.03	13.36	0	19:54	0.00139	0.527	2025 0.028	JUNCTION	0.03	17.07	0	07:55	0.00139	0.671
2011 0.016	JUNCTION	0.03	13.61	0	07:56	0.00139	0.537	2026 0.017	JUNCTION	0.03	17.17	0	07:52	0.00139	0.675
2012 0.019	JUNCTION	0.03	13.87	0	07:58	0.00139	0.547	203 0.003	JUNCTION	0.03	32.91	0	20:00	0.00139	1.42
2013 0.017	JUNCTION	0.03	13.90	0	07:55	0.00139	0.548	204 0.010	JUNCTION	0.03	32.88	0	20:00	0.00139	1.42
2014 0.025	JUNCTION	0.03	13.94	0	19:57	0.00139	0.55	205 0.008	JUNCTION	0.03	32.84	0	20:00	0.00139	1.41
2015 0.019	JUNCTION	0.03	14.01	0	19:59	0.00139	0.552	206 0.009	JUNCTION	0.03	32.81	0	20:00	0.00139	1.41
2016 0.045	JUNCTION	0.03	14.08	0	07:48	0.00139	0.555	207 0.010	JUNCTION	0.03	32.77	0	20:00	0.00139	1.41
2017 0.018	JUNCTION	0.03	14.11	0	07:51	0.00139	0.556	2078 0.018	JUNCTION	0.22	11.75	0	07:46	0.00874	0.464
2018 0.033	JUNCTION	0.03	14.22	0	07:51	0.00139	0.56	208 0.019	JUNCTION	0.03	32.74	0	20:00	0.00139	1.41
2019 0.020	JUNCTION	0.03	14.32	0	07:59	0.00139	0.564	2080 0.023	JUNCTION	0.22	11.97	0	19:50	0.00874	0.473
202 0.007	JUNCTION	0.03	32.95	0	20:00	0.00139	1.42	2081 0.018	JUNCTION	0.22	12.63	0	07:45	0.00874	0.499
2020 0.021	JUNCTION	0.03	16.96	0	07:51	0.00139	0.667	2082 0.028	JUNCTION	0.22	12.85	0	19:59	0.00874	0.508
2021 0.063	JUNCTION	0.03	2.57	0	19:28	0.00139	0.101	2083 0.031	JUNCTION	0.22	13.07	0	07:47	0.00874	0.516
2022 0.073	JUNCTION	0.03	2.53	0	07:27	0.00139	0.0999	209 0.007	JUNCTION	0.03	32.70	0	20:00	0.00139	1.41
2023 0.034	JUNCTION	0.22	4.68	0	07:27	0.00874	0.185	210 0.018	JUNCTION	0.03	32.67	0	20:00	0.00139	1.41

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

211	JUNCTION	0.03	32.63	0	20:00	0.00139	1.41		235	JUNCTION	0.70	5.07	0	20:00	0.0278	0.199	0.049
0.010									237	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	
212	JUNCTION	0.11	32.42	0	20:00	0.00437	1.4	0.019	4.462								
219	JUNCTION	0.03	1.41	0	19:58	0.00139	0.0553		238	JUNCTION	0.03	0.05	0	07:19	0.00139	0.00195	
0.127									3.176								
220	JUNCTION	0.03	1.44	0	07:53	0.00139	0.0566		239	JUNCTION	0.03	0.08	0	07:44	0.00139	0.00328	
0.123									2.714								
221	JUNCTION	0.03	1.48	0	07:54	0.00139	0.0579		244	JUNCTION	0.03	0.12	0	19:12	0.00139	0.00462	
0.133									9.857								
222	JUNCTION	0.03	1.51	0	07:54	0.00139	0.0592		245	JUNCTION	0.03	0.15	0	19:44	0.00139	0.0056	
0.117									1.133								
223	JUNCTION	0.03	1.55	0	07:55	0.00139	0.0606		246	JUNCTION	0.03	0.19	0	19:51	0.00139	0.00689	
0.145									0.907								
224	JUNCTION	0.03	1.58	0	19:56	0.00139	0.0619		247	JUNCTION	0.03	0.22	0	19:58	0.00139	0.00822	
0.021									0.754								
225	JUNCTION	0.03	1.62	0	19:58	0.00139	0.0632		248	JUNCTION	0.03	0.26	0	19:59	0.00139	0.00955	
0.123									0.561								
226	JUNCTION	0.03	1.65	0	07:41	0.00139	0.0646		249	JUNCTION	0.22	0.48	0	19:59	0.00874	0.0182	
0.129									0.385								
227	JUNCTION	0.22	1.87	0	19:59	0.00874	0.0732		250	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	
0.092									4.481								
228	JUNCTION	0.22	2.57	0	19:59	0.00874	0.1	0.094	251	JUNCTION	0.03	0.07	0	07:28	0.00139	0.00272	
229	JUNCTION	0.22	2.79	0	20:00	0.00874	0.109		2.277								
0.067									252	JUNCTION	0.03	0.11	0	07:31	0.00139	0.00405	
230	JUNCTION	0.22	3.01	0	20:00	0.00874	0.117		1.584								
0.078									253	JUNCTION	0.03	0.14	0	07:39	0.00139	0.00538	
231	JUNCTION	0.22	3.23	0	20:00	0.00874	0.126		1.160								
0.056									254	JUNCTION	0.22	0.36	0	07:39	0.00874	0.0141	
232	JUNCTION	0.22	3.45	0	20:00	0.00874	0.135		0.452								
0.054									255	JUNCTION	0.03	9.40	0	07:39	0.00139	0.451	
233	JUNCTION	0.70	4.15	0	20:00	0.0278	0.162	0.044	0.034								
234	JUNCTION	0.22	4.37	0	20:00	0.00874	0.171		256	JUNCTION	0.22	9.61	0	07:38	0.00874	0.46	0.017
0.047																	

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

257 0.006	JUNCTION	0.11	13.88	0	07:16	0.00437	0.628	2927 2.299	JUNCTION	0.03	0.07	0	07:31	0.00139	0.00272
258 0.026	JUNCTION	0.11	7.32	0	07:56	0.00437	0.278	2928 1.548	JUNCTION	0.03	0.11	0	07:46	0.00139	0.00405
2595 0.284	JUNCTION	0.03	0.42	0	07:13	0.00139	0.016	2929 1.223	JUNCTION	0.03	0.14	0	07:47	0.00139	0.00538
2596 0.625	JUNCTION	0.03	0.28	0	07:31	0.00139	0.0107	293 0.053	JUNCTION	0.03	10.70	0	19:03	0.00139	0.424
2597 0.000	JUNCTION	0.03	0.25	0	07:41	0.00139	0.00937	2930 0.041	JUNCTION	0.11	0.25	0	08:00	0.00437	0.00969
2600 0.769	JUNCTION	0.03	0.21	0	07:26	0.00139	0.00804	2931 0.717	JUNCTION	0.11	0.22	0	07:07	0.00437	0.00868
2601 0.919	JUNCTION	0.03	0.18	0	07:41	0.00139	0.00671	2935 0.109	JUNCTION	0.11	1.56	0	07:48	0.00437	0.0601
2602 1.146	JUNCTION	0.03	0.14	0	07:24	0.00139	0.00538	2936 0.162	JUNCTION	0.22	1.07	0	07:51	0.00874	0.041
2603 0.000	JUNCTION	0.03	0.11	0	07:21	0.00139	0.00405	2937 0.171	JUNCTION	0.03	0.85	0	07:43	0.00139	0.0323
2606 2.235	JUNCTION	0.03	0.07	0	07:23	0.00139	0.00272	2938 0.212	JUNCTION	0.03	0.82	0	07:42	0.00139	0.031
2607 0.000	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	2939 0.215	JUNCTION	0.03	0.78	0	07:42	0.00139	0.0297
2893 4.449	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	294 0.014	JUNCTION	0.03	10.73	0	19:04	0.00139	0.425
290 0.025	JUNCTION	0.03	10.61	0	07:02	0.00139	0.42	2940 0.222	JUNCTION	0.03	0.75	0	07:50	0.00139	0.0283
291 0.032	JUNCTION	0.03	10.64	0	07:02	0.00139	0.421	2941 0.233	JUNCTION	0.03	0.71	0	07:51	0.00139	0.027
292 0.018	JUNCTION	0.03	10.66	0	07:03	0.00139	0.423	2942 0.248	JUNCTION	0.03	0.68	0	07:42	0.00139	0.0257
2926 4.514	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	2943 0.258	JUNCTION	0.03	0.64	0	07:49	0.00139	0.0244

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

2944 0.279	JUNCTION	0.03	0.61	0	07:53	0.00139	0.023	2959 0.021	JUNCTION	0.03	13.86	0	19:23	0.00139	0.681
2945 0.295	JUNCTION	0.03	0.57	0	07:54	0.00139	0.0217	296 0.023	JUNCTION	0.03	10.80	0	07:18	0.00139	0.428
2946 0.312	JUNCTION	0.03	0.54	0	07:50	0.00139	0.0204	2960 0.018	JUNCTION	0.03	13.83	0	19:22	0.00139	0.68
2947 0.337	JUNCTION	0.03	0.50	0	07:39	0.00139	0.0191	2961 0.013	JUNCTION	0.03	13.79	0	19:22	0.00139	0.678
2948 0.020	JUNCTION	0.11	20.92	0	20:00	0.00437	0.951	2962 0.015	JUNCTION	0.03	13.76	0	19:22	0.00139	0.677
2949 0.012	JUNCTION	0.22	15.31	0	19:25	0.00874	0.737	2963 0.011	JUNCTION	0.03	12.78	0	07:32	0.00139	0.64
295 0.022	JUNCTION	0.03	10.77	0	07:21	0.00139	0.426	2964 0.023	JUNCTION	0.03	12.74	0	19:51	0.00139	0.639
2950 0.016	JUNCTION	0.03	15.09	0	19:24	0.00139	0.728	2965 0.018	JUNCTION	0.03	12.71	0	19:51	0.00139	0.637
2951 0.018	JUNCTION	0.03	15.05	0	19:24	0.00139	0.727	2966 0.019	JUNCTION	0.03	12.67	0	19:51	0.00139	0.636
2952 0.019	JUNCTION	0.03	15.02	0	19:24	0.00139	0.725	2967 0.017	JUNCTION	0.03	12.64	0	19:52	0.00139	0.635
2953 0.013	JUNCTION	0.03	14.98	0	19:24	0.00139	0.724	2968 0.018	JUNCTION	0.03	12.60	0	19:52	0.00139	0.633
2954 0.014	JUNCTION	0.03	14.95	0	19:24	0.00139	0.723	2969 0.017	JUNCTION	0.03	12.57	0	19:51	0.00139	0.632
2955 0.016	JUNCTION	0.03	14.91	0	19:23	0.00139	0.722	297 0.019	JUNCTION	0.03	11.19	0	07:55	0.00139	0.442
2956 0.020	JUNCTION	0.03	14.88	0	19:23	0.00139	0.72	2970 0.012	JUNCTION	0.03	12.53	0	19:33	0.00139	0.631
2957 0.015	JUNCTION	0.03	14.74	0	19:23	0.00139	0.715	2971 0.016	JUNCTION	0.03	12.50	0	07:32	0.00139	0.63
2958 0.021	JUNCTION	0.03	13.90	0	19:23	0.00139	0.682	2972 0.014	JUNCTION	0.03	12.46	0	19:39	0.00139	0.628

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

2973 0.012	JUNCTION	0.03	12.43	0	07:40	0.00139	0.627	2999 0.198	JUNCTION	0.03	0.81	0	07:38	0.00139	0.0318
2974 0.017	JUNCTION	0.03	12.39	0	07:35	0.00139	0.626	300 0.140	JUNCTION	0.03	11.29	0	07:05	0.00139	0.446
2975 0.029	JUNCTION	0.03	12.36	0	19:30	0.00139	0.624	3000 0.212	JUNCTION	0.03	0.77	0	07:37	0.00139	0.0305
2976 0.026	JUNCTION	0.03	12.32	0	07:35	0.00139	0.623	3001 0.250	JUNCTION	0.70	0.74	0	07:32	0.0278	0.0291
2977 0.018	JUNCTION	0.03	12.29	0	07:35	0.00139	0.622	3002 0.000	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139
2978 0.019	JUNCTION	0.03	12.25	0	19:47	0.00139	0.621	3003 0.046	JUNCTION	0.11	4.19	0	20:00	0.00437	0.159
2979 0.022	JUNCTION	0.03	12.22	0	19:47	0.00139	0.619	3004 0.048	JUNCTION	0.22	3.90	0	20:00	0.00874	0.148
298 0.023	JUNCTION	0.03	11.22	0	07:55	0.00139	0.444	3005 0.052	JUNCTION	0.03	3.68	0	20:00	0.00139	0.139
2980 0.021	JUNCTION	0.03	12.18	0	19:59	0.00139	0.618	3006 0.050	JUNCTION	0.03	3.65	0	20:00	0.00139	0.138
2981 0.015	JUNCTION	0.22	12.15	0	07:30	0.00874	0.617	3007 0.056	JUNCTION	0.03	3.61	0	20:00	0.00139	0.137
2982 0.017	JUNCTION	0.22	11.93	0	19:26	0.00874	0.608	3008 0.051	JUNCTION	0.03	3.58	0	20:00	0.00139	0.136
2983 0.000	JUNCTION	0.22	11.71	0	19:39	0.00874	0.6	3009 0.051	JUNCTION	0.03	3.54	0	20:00	0.00139	0.134
2984 1.492	JUNCTION	0.03	0.11	0	07:26	0.00139	0.00405	301 0.019	JUNCTION	0.03	11.34	0	07:07	0.00139	0.447
2985 2.233	JUNCTION	0.03	0.07	0	07:26	0.00139	0.00272	3010 0.051	JUNCTION	0.03	3.51	0	20:00	0.00139	0.133
2986 0.000	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	3011 0.051	JUNCTION	0.03	3.47	0	20:00	0.00139	0.132
299 0.026	JUNCTION	0.03	11.26	0	07:30	0.00139	0.445	3012 0.052	JUNCTION	0.03	3.44	0	20:00	0.00139	0.13

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

3013 0.054	JUNCTION	0.03	3.40	0	20:00	0.00139	0.129	3032 0.450	JUNCTION	0.03	0.36	0	19:11	0.00139	0.0139
3014 0.071	JUNCTION	0.03	3.37	0	20:00	0.00139	0.128	3034 0.491	JUNCTION	0.03	0.33	0	19:11	0.00139	0.0126
3015 0.072	JUNCTION	0.03	3.33	0	20:00	0.00139	0.126	3035 0.548	JUNCTION	0.03	0.29	0	19:10	0.00139	0.0112
3016 0.059	JUNCTION	0.03	3.30	0	20:00	0.00139	0.125	3036 0.621	JUNCTION	0.03	0.26	0	19:10	0.00139	0.00991
3017 0.060	JUNCTION	0.03	3.26	0	20:00	0.00139	0.124	3037 0.715	JUNCTION	0.03	0.22	0	19:10	0.00139	0.00858
3018 0.064	JUNCTION	0.03	2.90	0	20:00	0.00139	0.11	3039 0.539	JUNCTION	0.03	0.29	0	19:10	0.00139	0.0113
302 0.026	JUNCTION	0.03	11.36	0	19:08	0.00139	0.448	3040 1.149	JUNCTION	0.03	0.14	0	19:10	0.00139	0.00542
3024 0.068	JUNCTION	0.03	2.76	0	20:00	0.00139	0.105	3041 0.929	JUNCTION	0.03	0.18	0	19:10	0.00139	0.00675
3025 0.073	JUNCTION	0.03	2.73	0	20:00	0.00139	0.103	3042 0.784	JUNCTION	0.03	0.21	0	19:11	0.00139	0.00808
3026 0.069	JUNCTION	0.03	2.69	0	20:00	0.00139	0.102	3043 0.656	JUNCTION	0.03	0.25	0	19:12	0.00139	0.0094
3027 0.070	JUNCTION	0.03	2.66	0	20:00	0.00139	0.101	3044 0.573	JUNCTION	0.03	0.28	0	19:12	0.00139	0.0107
3028 0.069	JUNCTION	0.03	2.62	0	20:00	0.00139	0.0993	3045 0.511	JUNCTION	0.03	0.32	0	19:13	0.00139	0.0121
3029 0.082	JUNCTION	0.03	2.59	0	20:00	0.00139	0.098	3046 0.461	JUNCTION	0.03	0.35	0	19:13	0.00139	0.0134
303 0.015	JUNCTION	0.03	11.40	0	19:08	0.00139	0.45	3047 0.421	JUNCTION	0.03	0.39	0	19:13	0.00139	0.0147
3030 0.387	JUNCTION	0.03	0.43	0	19:12	0.00139	0.0166	3048 0.391	JUNCTION	0.03	0.42	0	19:13	0.00139	0.0161
3031 0.410	JUNCTION	0.03	0.40	0	19:11	0.00139	0.0152	3049 0.363	JUNCTION	0.03	0.46	0	19:14	0.00139	0.0174

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

305 0.015	JUNCTION	0.03	9.07	0	07:00	0.00139	0.454	307 0.026	JUNCTION	0.03	9.14	0	07:00	0.00139	0.456
3050 0.399	JUNCTION	0.03	0.49	0	19:14	0.00139	0.0187	308 0.027	JUNCTION	0.03	9.18	0	19:01	0.00139	0.458
3051 0.319	JUNCTION	0.03	0.53	0	19:15	0.00139	0.02	3085 2.239	JUNCTION	0.03	0.07	0	08:00	0.00139	0.00272
3052 0.304	JUNCTION	0.03	0.56	0	19:15	0.00139	0.0214	3086 0.000	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139
3053 0.318	JUNCTION	0.03	0.60	0	19:16	0.00139	0.0227	309 0.048	JUNCTION	0.03	9.21	0	19:01	0.00139	0.459
3054 0.271	JUNCTION	0.03	0.63	0	19:17	0.00139	0.024	3093 0.494	JUNCTION	0.03	0.33	0	07:49	0.00139	0.0125
3055 0.256	JUNCTION	0.03	0.67	0	19:17	0.00139	0.0253	3094 0.586	JUNCTION	0.03	0.29	0	07:36	0.00139	0.0112
3056 0.246	JUNCTION	0.03	0.70	0	19:17	0.00139	0.0266	3095 0.655	JUNCTION	0.03	0.26	0	07:34	0.00139	0.00983
3057 0.234	JUNCTION	0.03	0.74	0	19:18	0.00139	0.028	3096 0.738	JUNCTION	0.03	0.22	0	07:34	0.00139	0.0085
3058 0.223	JUNCTION	0.03	0.77	0	19:18	0.00139	0.0293	3097 0.876	JUNCTION	0.03	0.19	0	07:25	0.00139	0.00717
3059 0.217	JUNCTION	0.03	0.81	0	19:18	0.00139	0.0306	3098 1.064	JUNCTION	0.03	0.15	0	07:25	0.00139	0.00584
306 0.028	JUNCTION	0.03	9.11	0	07:00	0.00139	0.455	3099 1.391	JUNCTION	0.03	0.12	0	07:24	0.00139	0.00451
3060 0.222	JUNCTION	0.03	0.84	0	19:18	0.00139	0.0319	3100 1.955	JUNCTION	0.03	0.08	0	07:22	0.00139	0.00318
3061 0.232	JUNCTION	0.03	0.88	0	19:19	0.00139	0.0333	3101 3.330	JUNCTION	0.03	0.05	0	07:21	0.00139	0.00185
3062 0.206	JUNCTION	0.03	0.91	0	19:19	0.00139	0.0346	3108 0.091	JUNCTION	0.03	2.12	0	20:00	0.00139	0.0802
3063 0.187	JUNCTION	0.03	0.95	0	19:22	0.00139	0.0359	3109 0.083	JUNCTION	0.03	2.08	0	20:00	0.00139	0.0788

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

311 0.028	JUNCTION	0.03	9.49	0	07:13	0.00139	0.469	3124 2.865	JUNCTION	0.03	0.06	0	19:04	0.00139	0.00216
3110 0.085	JUNCTION	0.03	2.05	0	20:00	0.00139	0.0775	3126 0.099	JUNCTION	0.03	2.24	0	20:00	0.00139	0.0835
3111 0.090	JUNCTION	0.03	2.01	0	20:00	0.00139	0.0762	3127 0.284	JUNCTION	0.03	0.61	0	19:16	0.00139	0.0231
3112 0.088	JUNCTION	0.03	1.98	0	20:00	0.00139	0.0749	3128 0.306	JUNCTION	0.03	0.57	0	19:14	0.00139	0.0218
3113 0.113	JUNCTION	0.03	1.94	0	20:00	0.00139	0.0736	3129 0.636	JUNCTION	0.03	0.25	0	19:12	0.00139	0.00956
3114 0.102	JUNCTION	0.03	1.91	0	20:00	0.00139	0.0722	313 0.028	JUNCTION	0.03	9.97	0	20:00	0.00139	0.487
3115 0.102	JUNCTION	0.03	1.87	0	20:00	0.00139	0.0709	3130 0.767	JUNCTION	0.03	0.22	0	19:09	0.00139	0.00823
3116 0.117	JUNCTION	0.03	1.84	0	20:00	0.00139	0.0696	3131 0.894	JUNCTION	0.03	0.18	0	19:09	0.00139	0.0069
3117 0.107	JUNCTION	0.03	1.80	0	20:00	0.00139	0.0683	3132 0.000	JUNCTION	0.03	0.15	0	19:08	0.00139	0.00557
3118 0.620	JUNCTION	0.03	0.26	0	19:09	0.00139	0.00995	3133 1.440	JUNCTION	0.03	0.11	0	19:08	0.00139	0.00424
3119 0.713	JUNCTION	0.03	0.22	0	19:09	0.00139	0.00862	3134 2.098	JUNCTION	0.03	0.08	0	19:07	0.00139	0.00291
312 0.019	JUNCTION	0.03	9.53	0	07:12	0.00139	0.471	3136 1.285	JUNCTION	0.03	0.13	0	19:06	0.00139	0.00482
3120 0.848	JUNCTION	0.03	0.19	0	19:08	0.00139	0.00729	314 0.430	JUNCTION	0.03	0.41	0	20:00	0.00139	0.0153
3121 1.034	JUNCTION	0.03	0.15	0	19:08	0.00139	0.00596	315 0.523	JUNCTION	0.03	0.38	0	20:00	0.00139	0.014
3122 1.329	JUNCTION	0.03	0.12	0	19:07	0.00139	0.00463	3152 2.053	JUNCTION	0.03	0.08	0	07:24	0.00139	0.00299
3123 1.773	JUNCTION	0.03	0.09	0	19:05	0.00139	0.00349	3153 3.737	JUNCTION	0.03	0.04	0	07:15	0.00139	0.00165



*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

3154 4.413	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	3175 0.583	JUNCTION	0.03	0.29	0	07:42	0.00139	0.011
3155 0.132	JUNCTION	0.03	1.39	0	20:00	0.00139	0.0512	3176 1.091	JUNCTION	0.03	0.15	0	07:25	0.00139	0.00565
3156 0.139	JUNCTION	0.03	1.33	0	20:00	0.00139	0.0488	3177 1.419	JUNCTION	0.03	0.11	0	07:22	0.00139	0.00432
3157 0.142	JUNCTION	0.03	1.29	0	20:00	0.00139	0.0475	3178 0.000	JUNCTION	0.03	0.17	0	08:00	0.00139	0.00671
3158 0.147	JUNCTION	0.03	1.26	0	20:00	0.00139	0.0462	3179 1.181	JUNCTION	0.03	0.14	0	07:49	0.00139	0.00538
3159 0.129	JUNCTION	0.03	1.42	0	20:00	0.00139	0.0526	318 2.036	JUNCTION	0.03	0.13	0	20:00	0.00139	0.00488
316 0.902	JUNCTION	0.03	0.20	0	20:00	0.00139	0.00737	3180 1.542	JUNCTION	0.03	0.10	0	07:48	0.00139	0.00405
3160 0.139	JUNCTION	0.03	1.46	0	20:00	0.00139	0.0539	3181 2.293	JUNCTION	0.03	0.07	0	07:39	0.00139	0.00272
3161 0.131	JUNCTION	0.03	1.49	0	20:00	0.00139	0.0552	3182 4.519	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139
3162 0.120	JUNCTION	0.03	1.53	0	20:00	0.00139	0.0565	319 7.185	JUNCTION	0.03	0.10	0	07:55	0.00139	0.00373
3163 0.127	JUNCTION	0.03	1.56	0	20:00	0.00139	0.0578	3193 0.206	JUNCTION	0.03	0.81	0	07:46	0.00139	0.0307
3164 0.107	JUNCTION	0.03	1.60	0	20:00	0.00139	0.0592	3194 0.219	JUNCTION	0.03	0.78	0	07:41	0.00139	0.0294
317 3.218	JUNCTION	0.03	0.17	0	20:00	0.00139	0.00618	3195 0.235	JUNCTION	0.03	0.74	0	07:41	0.00139	0.028
3172 0.888	JUNCTION	0.03	0.18	0	07:25	0.00139	0.00698	3196 0.243	JUNCTION	0.03	0.71	0	07:40	0.00139	0.0267
3173 0.747	JUNCTION	0.03	0.22	0	07:25	0.00139	0.00831	3197 2.251	JUNCTION	0.03	0.07	0	07:31	0.00139	0.00272
3174 0.671	JUNCTION	0.03	0.25	0	07:26	0.00139	0.00964	3198 4.507	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

320 0.000	JUNCTION	0.03	0.06	0	07:34	0.00139	0.00238	3271 0.012	JUNCTION	0.03	24.25	0	19:57	0.00139	0.952
3201 0.330	JUNCTION	0.03	0.60	0	07:39	0.00139	0.0227	3272 0.011	JUNCTION	0.03	24.21	0	19:57	0.00139	0.951
3202 0.318	JUNCTION	0.03	0.57	0	07:50	0.00139	0.0214	3273 0.010	JUNCTION	0.03	24.18	0	19:57	0.00139	0.949
322 4.427	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	3274 0.021	JUNCTION	0.03	24.14	0	07:54	0.00139	0.948
323 3.591	JUNCTION	0.03	0.04	0	07:34	0.00139	0.00174	3276 0.010	JUNCTION	0.03	24.11	0	07:56	0.00139	0.947
324 2.010	JUNCTION	0.03	0.08	0	07:43	0.00139	0.00307	3277 0.011	JUNCTION	0.03	24.07	0	07:56	0.00139	0.946
326 0.569	JUNCTION	0.03	0.29	0	07:59	0.00139	0.011	3278 0.011	JUNCTION	0.03	24.04	0	07:54	0.00139	0.944
3263 0.009	JUNCTION	0.03	24.53	0	07:57	0.00139	0.962	328 0.471	JUNCTION	0.03	0.36	0	07:58	0.00139	0.0137
3264 0.013	JUNCTION	0.03	24.49	0	07:56	0.00139	0.961	3280 0.010	JUNCTION	0.03	24.00	0	07:54	0.00139	0.943
3265 0.019	JUNCTION	0.03	24.46	0	07:59	0.00139	0.96	329 0.424	JUNCTION	0.03	0.39	0	07:59	0.00139	0.015
3266 0.010	JUNCTION	0.03	24.42	0	19:56	0.00139	0.958	330 0.387	JUNCTION	0.03	0.43	0	07:59	0.00139	0.0164
3267 0.010	JUNCTION	0.03	24.39	0	07:56	0.00139	0.957	332 0.377	JUNCTION	0.03	0.46	0	07:59	0.00139	0.0177
3268 0.011	JUNCTION	0.03	24.35	0	19:57	0.00139	0.956	3320 4.468	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139
3269 0.011	JUNCTION	0.03	24.32	0	19:57	0.00139	0.954	3321 2.264	JUNCTION	0.03	0.07	0	07:25	0.00139	0.00272
327 0.508	JUNCTION	0.03	0.32	0	07:59	0.00139	0.0124	3322 1.523	JUNCTION	0.03	0.11	0	07:26	0.00139	0.00405
3270 0.011	JUNCTION	0.03	24.28	0	19:58	0.00139	0.953	3323 1.144	JUNCTION	0.03	0.14	0	07:26	0.00139	0.00538

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

3324	JUNCTION	0.03	0.18	0	07:26	0.00139	0.00671	3411	JUNCTION	0.03	0.07	0	07:30	0.00139	0.00272	
0.925								2.284								
3325	JUNCTION	0.03	0.21	0	07:27	0.00139	0.00804	3412	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	
0.773								0.000								
3326	JUNCTION	0.03	0.25	0	19:31	0.00139	0.00937	342	JUNCTION	0.03	10.56	0	07:01	0.00139	0.418	
0.666								0.036								
3327	JUNCTION	0.03	0.28	0	19:31	0.00139	0.0107	343	JUNCTION	0.03	10.61	0	07:02	0.00139	0.419	
0.574								0.020								
3328	JUNCTION	0.03	0.32	0	07:32	0.00139	0.012	3440	JUNCTION	0.03	7.26	0	20:00	0.00139	0.282	
0.530								0.055								
3329	JUNCTION	0.03	11.15	0	07:36	0.00139	0.441	3441	JUNCTION	0.03	0.21	0	08:00	0.00139	0.00804	
0.029								0.785								
333	JUNCTION	0.03	0.53	0	20:00	0.00139	0.0203	3442	JUNCTION	0.03	0.17	0	07:56	0.00139	0.00671	
0.328								0.951								
334	JUNCTION	0.03	0.57	0	20:00	0.00139	0.0217	3443	JUNCTION	0.03	0.14	0	07:43	0.00139	0.00538	
0.296								1.182								
335	JUNCTION	0.03	0.79	0	08:00	0.00139	0.0301	3444	JUNCTION	0.03	0.11	0	07:42	0.00139	0.00405	
0.219								1.539								
336	JUNCTION	10.31	10.31	0	07:00	0.41	0.41	0.022	3445	JUNCTION	0.03	0.07	0	07:31	0.00139	0.00272
337	JUNCTION	0.03	10.39	0	07:00	0.00139	0.411	2.286								
0.023								3446	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	
338	JUNCTION	0.03	10.46	0	07:00	0.00139	0.412	4.509								
0.038								3453	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	
339	JUNCTION	0.03	10.51	0	19:00	0.00139	0.414	4.510								
0.007								3454	JUNCTION	0.03	0.07	0	07:31	0.00139	0.00272	
340	JUNCTION	0.03	10.55	0	19:01	0.00139	0.415	2.292								
0.034								3455	JUNCTION	0.03	0.25	0	07:47	0.00139	0.00937	
3409	JUNCTION	0.03	0.14	0	07:35	0.00139	0.00538	0.716								
1.161								3456	JUNCTION	0.03	0.37	0	07:31	0.00139	0.0141	
341	JUNCTION	0.03	10.51	0	07:01	0.00139	0.416	0.493								
0.014								3457	JUNCTION	0.03	0.40	0	07:38	0.00139	0.0154	
3410	JUNCTION	0.03	0.11	0	07:35	0.00139	0.00405	0.475								
1.536																

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

3458 0.446	JUNCTION	0.03	0.44	0	19:24	0.00139	0.0167	3630 0.028	JUNCTION	0.03	8.99	0	20:00	0.00139	0.346
3505 0.009	JUNCTION	0.03	6.88	0	08:00	0.00139	0.268	3631 0.264	JUNCTION	0.03	0.72	0	20:00	0.00139	0.027
3508 0.080	JUNCTION	0.03	6.91	0	08:00	0.00139	0.269	3632 0.393	JUNCTION	0.03	0.68	0	20:00	0.00139	0.0257
3617 0.041	JUNCTION	0.03	7.82	0	08:00	0.00139	0.303	3633 1.202	JUNCTION	0.03	0.65	0	20:00	0.00139	0.0246
3618 0.055	JUNCTION	0.03	7.86	0	08:00	0.00139	0.304	3634 0.463	JUNCTION	0.03	0.61	0	20:00	0.00139	0.0233
3619 0.048	JUNCTION	0.03	7.89	0	08:00	0.00139	0.305	3635 0.356	JUNCTION	0.03	0.58	0	20:00	0.00139	0.022
3620 0.027	JUNCTION	0.03	7.93	0	08:00	0.00139	0.307	3636 0.383	JUNCTION	0.03	0.54	0	07:31	0.00139	0.0207
3621 0.040	JUNCTION	0.03	7.96	0	08:00	0.00139	0.308	3637 0.343	JUNCTION	0.03	0.51	0	19:30	0.00139	0.0194
3622 0.031	JUNCTION	0.03	8.00	0	08:00	0.00139	0.309	3638 0.362	JUNCTION	0.03	0.47	0	19:29	0.00139	0.0181
3623 0.031	JUNCTION	0.03	8.03	0	20:00	0.00139	0.31	3692 0.146	JUNCTION	0.22	1.26	0	19:58	0.00874	0.0495
3624 0.028	JUNCTION	0.03	8.07	0	08:00	0.00139	0.312	3693 0.702	JUNCTION	0.22	0.22	0	07:00	0.00874	0.00874
3625 0.039	JUNCTION	0.03	8.10	0	08:00	0.00139	0.313	3905 0.299	JUNCTION	0.22	0.56	0	07:28	0.00874	0.0222
3626 0.030	JUNCTION	0.03	8.14	0	20:00	0.00139	0.314	3906 0.470	JUNCTION	0.22	0.34	0	07:25	0.00874	0.0136
3627 0.041	JUNCTION	0.03	8.17	0	20:00	0.00139	0.316	3907 0.709	JUNCTION	0.22	0.22	0	07:00	0.00874	0.00874
3628 0.026	JUNCTION	0.03	8.21	0	08:00	0.00139	0.317	3908 1.145	JUNCTION	0.03	0.13	0	07:25	0.00139	0.00526
3629 0.029	JUNCTION	0.03	8.24	0	08:00	0.00139	0.318	430 0.020	JUNCTION	0.22	15.45	0	07:52	0.00874	0.608

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

431 0.015	JUNCTION	0.22	15.67	0 07:56	0.00874	0.616	449 0.000	JUNCTION	0.03	11.44	0 20:00	0.00139	0.542
432 0.026	JUNCTION	0.22	15.89	0 07:51	0.00874	0.625	4492 0.347	JUNCTION	0.03	0.47	0 07:57	0.00139	0.0178
434 0.020	JUNCTION	0.22	15.22	0 07:05	0.00874	0.642	450 0.027	JUNCTION	0.03	11.37	0 20:00	0.00139	0.539
435 0.008	JUNCTION	0.22	15.45	0 07:06	0.00874	0.651	451 0.028	JUNCTION	0.03	11.30	0 20:00	0.00139	0.537
436 0.011	JUNCTION	0.22	15.67	0 19:06	0.00874	0.66	452 0.022	JUNCTION	0.03	11.27	0 20:00	0.00139	0.535
437 0.011	JUNCTION	0.22	15.88	0 07:07	0.00874	0.668	453 0.021	JUNCTION	0.03	11.23	0 20:00	0.00139	0.534
438 0.018	JUNCTION	0.22	16.10	0 19:07	0.00874	0.677	454 0.026	JUNCTION	0.03	11.20	0 20:00	0.00139	0.533
440 0.000	JUNCTION	0.22	15.22	0 07:03	0.00874	0.694	455 0.019	JUNCTION	0.03	11.16	0 20:00	0.00139	0.532
441 0.052	JUNCTION	0.22	3.20	0 19:28	0.00874	0.126	456 0.028	JUNCTION	0.03	11.13	0 20:00	0.00139	0.53
442 0.047	JUNCTION	0.22	4.30	0 07:26	0.00874	0.169	457 0.000	JUNCTION	0.03	11.09	0 20:00	0.00139	0.529
443 0.185	JUNCTION	0.22	0.88	0 19:04	0.00874	0.0348	4788 0.027	JUNCTION	0.11	23.41	0 20:00	0.00437	1.05
444 0.254	JUNCTION	0.22	0.66	0 07:03	0.00874	0.0261	4789 0.012	JUNCTION	0.11	25.89	0 20:00	0.00437	1.14
445 0.376	JUNCTION	0.22	0.44	0 07:12	0.00874	0.0174	4790 0.126	JUNCTION	0.11	1.41	0 07:57	0.00437	0.0525
446 0.000	JUNCTION	0.22	0.22	0 07:00	0.00874	0.00874	4791 0.142	JUNCTION	0.11	1.30	0 07:55	0.00437	0.0482
447 0.004	JUNCTION	0.11	11.59	0 20:00	0.00437	0.547	4792 0.159	JUNCTION	0.11	1.19	0 07:46	0.00437	0.0439
448 0.027	JUNCTION	0.03	11.48	0 20:00	0.00139	0.543	4793 0.164	JUNCTION	0.11	1.08	0 07:48	0.00437	0.0396

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

4794 0.204	JUNCTION	0.11	0.97	0 07:46	0.00437	0.0353	481 0.273	JUNCTION	0.03	0.61	0 08:00	0.00139	0.0234
4795 0.209	JUNCTION	0.11	0.86	0 19:59	0.00437	0.031	4810 0.443	JUNCTION	0.32	0.38	0 07:25	0.0125	0.015
4796 0.238	JUNCTION	0.11	0.75	0 07:45	0.00437	0.0267	4811 0.361	JUNCTION	0.11	0.49	0 07:29	0.00437	0.0193
4797 0.282	JUNCTION	0.11	0.64	0 07:50	0.00437	0.0224	4812 0.270	JUNCTION	0.11	0.60	0 07:30	0.00437	0.0236
4798 0.350	JUNCTION	0.11	0.53	0 07:45	0.00437	0.018	4813 0.239	JUNCTION	0.11	0.71	0 07:48	0.00437	0.0279
4799 0.454	JUNCTION	0.11	0.42	0 07:44	0.00437	0.0137	4814 0.216	JUNCTION	0.11	0.82	0 07:25	0.00437	0.0322
4800 0.668	JUNCTION	0.11	0.31	0 07:43	0.00437	0.00943	4815 0.098	JUNCTION	0.11	2.09	0 19:57	0.00437	0.0825
4801 1.173	JUNCTION	0.11	0.20	0 07:40	0.00437	0.00512	4816 0.085	JUNCTION	0.11	2.20	0 07:53	0.00437	0.0868
4802 0.094	JUNCTION	0.11	1.82	0 19:45	0.00437	0.0712	4817 0.082	JUNCTION	0.11	2.42	0 19:54	0.00437	0.0954
4803 0.106	JUNCTION	0.11	1.71	0 19:45	0.00437	0.0669	4818 0.070	JUNCTION	0.11	2.53	0 07:53	0.00437	0.0997
4804 0.142	JUNCTION	0.11	1.60	0 19:52	0.00437	0.0627	4819 0.070	JUNCTION	0.11	2.64	0 07:57	0.00437	0.104
4805 0.334	JUNCTION	0.11	0.49	0 19:33	0.00437	0.0192	482 0.000	JUNCTION	0.03	1.39	0 20:00	0.00139	0.0526
4806 0.428	JUNCTION	0.11	0.38	0 07:33	0.00437	0.0148	4820 0.090	JUNCTION	0.11	2.75	0 07:40	0.00437	0.108
4807 0.606	JUNCTION	0.11	0.27	0 07:32	0.00437	0.0105	4821 0.065	JUNCTION	0.11	2.86	0 07:57	0.00437	0.113
4808 1.012	JUNCTION	0.11	0.16	0 07:25	0.00437	0.00623	4822 0.073	JUNCTION	0.11	2.97	0 19:55	0.00437	0.117
4809 1.394	JUNCTION	0.11	0.11	0 07:00	0.00437	0.00437	4823 0.061	JUNCTION	0.11	3.08	0 19:55	0.00437	0.121

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

4824 0.063	JUNCTION	0.11	3.19	0	07:39	0.00437	0.125		4841 0.038	JUNCTION	0.11	6.65	0	07:55	0.00437	0.261
4825 0.057	JUNCTION	0.11	3.30	0	07:55	0.00437	0.13		4842 0.047	JUNCTION	0.11	6.76	0	07:55	0.00437	0.265
4827 0.053	JUNCTION	0.11	3.41	0	19:45	0.00437	0.134		4843 0.024	JUNCTION	0.11	6.87	0	07:53	0.00437	0.269
4828 0.077	JUNCTION	0.11	5.22	0	07:44	0.00437	0.205		4844 0.030	JUNCTION	0.11	7.43	0	07:57	0.00437	0.283
4829 0.038	JUNCTION	0.11	5.33	0	07:46	0.00437	0.21		4845 0.045	JUNCTION	0.11	7.54	0	07:56	0.00437	0.287
483 0.136	JUNCTION	0.03	1.35	0	08:00	0.00139	0.0513		4846 0.026	JUNCTION	0.11	7.76	0	07:52	0.00437	0.296
4830 0.024	JUNCTION	0.11	5.44	0	19:49	0.00437	0.214		4848 0.023	JUNCTION	0.11	9.41	0	07:53	0.00437	0.36
4831 0.041	JUNCTION	0.11	5.55	0	07:46	0.00437	0.218		4849 0.026	JUNCTION	0.11	9.52	0	07:53	0.00437	0.365
4832 0.036	JUNCTION	0.11	5.77	0	07:46	0.00437	0.227		485 0.142	JUNCTION	0.03	1.28	0	08:00	0.00139	0.0487
4833 0.041	JUNCTION	0.11	5.88	0	07:46	0.00437	0.231		4850 0.028	JUNCTION	0.11	9.63	0	07:53	0.00437	0.369
4834 0.039	JUNCTION	0.11	5.99	0	07:55	0.00437	0.235		4851 0.022	JUNCTION	0.11	9.74	0	07:53	0.00437	0.373
4835 0.049	JUNCTION	0.11	6.10	0	19:53	0.00437	0.239		4852 0.037	JUNCTION	0.11	9.85	0	07:55	0.00437	0.377
4836 0.040	JUNCTION	0.11	6.21	0	19:53	0.00437	0.244		4853 0.022	JUNCTION	0.11	9.96	0	07:55	0.00437	0.382
4838 0.033	JUNCTION	0.11	6.32	0	07:51	0.00437	0.248		4854 0.020	JUNCTION	0.11	10.07	0	07:55	0.00437	0.386
4839 0.035	JUNCTION	0.11	6.43	0	07:50	0.00437	0.252		4856 0.027	JUNCTION	0.11	10.18	0	07:57	0.00437	0.39
484 0.031	JUNCTION	0.03	1.32	0	08:00	0.00139	0.05	0.133	4857 0.025	JUNCTION	0.11	10.29	0	07:56	0.00437	0.394
4840	JUNCTION	0.11	6.54	0	07:55	0.00437	0.257									

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

4858 0.021	JUNCTION	0.11	10.40	0	07:56	0.00437	0.399	4872 0.012	JUNCTION	0.11	52.06	0	20:00	0.00437	2.21
4859 0.025	JUNCTION	0.11	10.51	0	07:56	0.00437	0.403	4873 0.037	JUNCTION	0.11	4.64	0	07:57	0.00437	0.182
486 0.142	JUNCTION	0.03	1.25	0	08:00	0.00139	0.0473	4874 0.043	JUNCTION	0.11	4.53	0	07:54	0.00437	0.177
4860 0.021	JUNCTION	0.11	10.62	0	07:56	0.00437	0.407	4875 0.042	JUNCTION	0.11	4.42	0	19:58	0.00437	0.173
4861 0.018	JUNCTION	0.11	10.73	0	07:58	0.00437	0.412	4876 0.048	JUNCTION	0.11	4.20	0	19:58	0.00437	0.165
4862 0.046	JUNCTION	0.11	10.84	0	07:56	0.00437	0.416	4877 0.001	JUNCTION	0.11	4.09	0	19:53	0.00437	0.16
4863 0.036	JUNCTION	0.11	10.95	0	07:56	0.00437	0.42	4878 0.046	JUNCTION	0.11	3.98	0	19:53	0.00437	0.156
4864 0.019	JUNCTION	0.11	11.06	0	07:56	0.00437	0.424	4879 0.053	JUNCTION	0.11	3.87	0	19:52	0.00437	0.152
4865 0.020	JUNCTION	0.11	11.28	0	07:55	0.00437	0.433	488 0.154	JUNCTION	0.03	1.18	0	08:00	0.00139	0.0447
4866 0.035	JUNCTION	0.11	27.67	0	19:55	0.00437	1.17	4880 0.051	JUNCTION	0.11	3.76	0	19:53	0.00437	0.147
4867 0.000	JUNCTION	0.11	27.78	0	07:56	0.00437	1.17	4881 0.072	JUNCTION	0.11	3.65	0	19:53	0.00437	0.143
4868 0.014	JUNCTION	0.11	28.00	0	07:57	0.00437	1.18	4882 0.063	JUNCTION	0.11	3.54	0	19:53	0.00437	0.139
4869 0.028	JUNCTION	0.11	28.22	0	08:00	0.00437	1.19	4883 0.060	JUNCTION	0.11	3.43	0	19:55	0.00437	0.134
487 0.151	JUNCTION	0.03	1.21	0	07:59	0.00139	0.046	4884 0.062	JUNCTION	0.11	3.32	0	19:53	0.00437	0.13
4870 0.020	JUNCTION	0.11	28.33	0	07:44	0.00437	1.19	4885 0.068	JUNCTION	0.11	3.21	0	19:52	0.00437	0.126
4871 0.004	JUNCTION	0.11	28.44	0	20:00	0.00437	1.2	4886 0.065	JUNCTION	0.11	3.10	0	19:51	0.00437	0.122



*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

4887 0.063	JUNCTION	0.11	2.99	0	19:51	0.00437	0.117	494 0.176	JUNCTION	0.03	0.97	0	08:00	0.00139	0.0367
4889 0.061	JUNCTION	1.05	2.70	0	19:51	0.0417	0.106	495 0.190	JUNCTION	0.03	0.93	0	20:00	0.00139	0.0354
489 0.153	JUNCTION	0.03	1.14	0	08:00	0.00139	0.0434	496 0.196	JUNCTION	0.03	0.90	0	08:00	0.00139	0.0341
4890 0.108	JUNCTION	0.11	1.54	0	07:34	0.00437	0.0601	497 0.198	JUNCTION	0.03	0.86	0	08:00	0.00139	0.0328
4891 0.120	JUNCTION	0.11	1.43	0	07:48	0.00437	0.0558	498 0.208	JUNCTION	0.03	0.83	0	20:00	0.00139	0.0314
4892 0.131	JUNCTION	0.11	1.32	0	07:34	0.00437	0.0515	4981 0.017	JUNCTION	0.03	23.97	0	07:53	0.00139	0.942
4893 0.140	JUNCTION	0.11	1.21	0	07:34	0.00437	0.0472	4982 0.014	JUNCTION	0.03	23.93	0	07:53	0.00139	0.94
4894 0.138	JUNCTION	0.11	1.10	0	07:45	0.00437	0.0429	4983 0.029	JUNCTION	0.03	23.90	0	07:53	0.00139	0.939
4895 0.190	JUNCTION	0.11	0.99	0	07:34	0.00437	0.0386	4984 0.032	JUNCTION	0.03	6.69	0	07:35	0.00139	0.263
4896 0.190	JUNCTION	0.11	0.88	0	07:42	0.00437	0.0343	4985 0.034	JUNCTION	0.03	6.66	0	07:42	0.00139	0.262
4897 0.241	JUNCTION	0.11	0.77	0	07:50	0.00437	0.03	4986 0.053	JUNCTION	0.22	6.59	0	07:31	0.00874	0.26
4898 1.428	JUNCTION	0.11	0.11	0	07:00	0.00437	0.00437	499 0.862	JUNCTION	0.03	0.19	0	07:33	0.00139	0.0072
490 0.165	JUNCTION	0.03	1.11	0	08:00	0.00139	0.042	500 1.076	JUNCTION	0.03	0.15	0	07:24	0.00139	0.00588
491 0.162	JUNCTION	0.03	1.07	0	08:00	0.00139	0.0407	5003 4.480	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139
492 0.172	JUNCTION	0.03	1.04	0	07:59	0.00139	0.0394	5004 2.249	JUNCTION	0.03	0.07	0	07:27	0.00139	0.00272
493 0.172	JUNCTION	0.03	1.00	0	20:00	0.00139	0.0381	5005 1.503	JUNCTION	0.03	0.11	0	07:29	0.00139	0.00405

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

5006 1.135	JUNCTION	0.03	0.14	0	07:29	0.00139	0.00538	5020 0.354	JUNCTION	0.03	0.46	0	07:20	0.00139	0.0173
5007 0.922	JUNCTION	0.03	0.18	0	07:29	0.00139	0.00671	5021 0.390	JUNCTION	0.03	0.42	0	07:20	0.00139	0.016
5008 0.793	JUNCTION	0.03	0.21	0	07:29	0.00139	0.00809	5022 0.449	JUNCTION	0.03	0.39	0	07:18	0.00139	0.0147
5009 0.012	JUNCTION	0.03	0.67	0	07:25	0.00139	0.0254	5023 0.479	JUNCTION	0.03	0.35	0	07:18	0.00139	0.0134
501 1.352	JUNCTION	0.03	0.12	0	07:22	0.00139	0.00455	5024 0.529	JUNCTION	0.03	0.32	0	07:17	0.00139	0.012
5010 0.277	JUNCTION	0.03	0.63	0	07:24	0.00139	0.0241	5025 0.499	JUNCTION	0.03	0.28	0	07:13	0.00139	0.0107
5011 0.279	JUNCTION	0.03	0.60	0	07:24	0.00139	0.0227	5026 0.786	JUNCTION	0.03	0.25	0	07:30	0.00139	0.00937
5012 0.294	JUNCTION	0.03	0.56	0	07:24	0.00139	0.0214	5027 0.791	JUNCTION	0.03	0.21	0	07:27	0.00139	0.00804
5013 0.313	JUNCTION	0.03	0.53	0	07:24	0.00139	0.0201	5028 0.930	JUNCTION	0.03	0.18	0	07:30	0.00139	0.00671
5014 0.334	JUNCTION	0.03	0.49	0	07:23	0.00139	0.0187	5029 1.158	JUNCTION	0.03	0.14	0	07:26	0.00139	0.00538
5015 0.365	JUNCTION	0.03	0.46	0	07:23	0.00139	0.0174	5030 1.534	JUNCTION	0.03	0.11	0	07:26	0.00139	0.00405
5016 0.391	JUNCTION	0.03	0.42	0	07:23	0.00139	0.0161	5031 2.275	JUNCTION	0.03	0.07	0	07:25	0.00139	0.00272
5017 0.431	JUNCTION	0.03	0.39	0	07:22	0.00139	0.0148	5032 4.466	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139
5018 0.463	JUNCTION	0.03	0.35	0	07:22	0.00139	0.0134	5072 0.032	JUNCTION	0.03	6.74	0	20:00	0.00139	0.263
5019 0.514	JUNCTION	0.03	0.32	0	07:21	0.00139	0.0121	5073 0.068	JUNCTION	0.03	6.77	0	08:00	0.00139	0.264
502 1.906	JUNCTION	0.03	0.08	0	07:22	0.00139	0.00322	5074 0.023	JUNCTION	0.03	6.81	0	08:00	0.00139	0.265

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

5075 0.117	JUNCTION	0.03	6.84	0	08:00	0.00139	0.266	5151 2.236	JUNCTION	0.03	0.07	0	07:39	0.00139	0.00272
5076 0.078	JUNCTION	0.03	6.95	0	20:00	0.00139	0.27	5153 0.014	JUNCTION	0.03	10.15	0	20:00	0.00139	0.494
5077 0.036	JUNCTION	0.03	6.98	0	20:00	0.00139	0.271	5162 0.024	JUNCTION	0.03	10.82	0	07:41	0.00139	0.425
5078 0.040	JUNCTION	0.03	7.02	0	20:00	0.00139	0.273	5163 0.029	JUNCTION	0.03	10.86	0	19:43	0.00139	0.427
5079 0.025	JUNCTION	0.03	7.30	0	20:00	0.00139	0.283	5164 0.032	JUNCTION	0.03	10.89	0	19:43	0.00139	0.428
5080 0.049	JUNCTION	0.03	7.33	0	20:00	0.00139	0.284	5165 0.033	JUNCTION	0.03	10.93	0	19:44	0.00139	0.429
5081 0.088	JUNCTION	0.03	7.37	0	20:00	0.00139	0.286	5166 0.035	JUNCTION	0.03	10.96	0	19:44	0.00139	0.43
5082 0.431	JUNCTION	0.03	0.39	0	07:31	0.00139	0.0147	5167 0.023	JUNCTION	0.03	11.00	0	19:44	0.00139	0.432
5083 0.452	JUNCTION	0.03	0.35	0	07:29	0.00139	0.0134	5168 0.020	JUNCTION	0.03	11.03	0	19:45	0.00139	0.433
5084 0.543	JUNCTION	0.03	0.32	0	07:28	0.00139	0.012	5169 0.020	JUNCTION	0.03	11.07	0	19:45	0.00139	0.434
5085 0.589	JUNCTION	0.03	0.28	0	07:14	0.00139	0.0107	5198 0.025	JUNCTION	0.22	7.75	0	07:51	0.00874	0.305
5086 1.130	JUNCTION	0.03	0.14	0	07:47	0.00139	0.00538	5199 0.025	JUNCTION	0.22	7.53	0	07:48	0.00874	0.296
5087 1.534	JUNCTION	0.03	0.10	0	07:42	0.00139	0.00405	5200 0.026	JUNCTION	0.22	7.31	0	07:48	0.00874	0.288
5088 2.285	JUNCTION	0.03	0.07	0	07:30	0.00139	0.00272	5201 0.027	JUNCTION	1.05	7.09	0	07:51	0.0417	0.279
5089 4.509	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	5202 0.045	JUNCTION	0.22	6.04	0	07:47	0.00874	0.237
5150 4.482	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	5203 0.035	JUNCTION	0.22	5.82	0	07:50	0.00874	0.229

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

5204 0.035	JUNCTION	0.22	5.60	0	07:55	0.00874	0.22	5223 4.513	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139
5205 0.037	JUNCTION	0.22	5.38	0	07:55	0.00874	0.211	5224 2.439	JUNCTION	0.03	0.06	0	07:33	0.00139	0.00253
5206 0.038	JUNCTION	0.22	5.16	0	07:46	0.00874	0.203	5225 1.581	JUNCTION	0.03	0.10	0	07:35	0.00139	0.00386
5207 0.037	JUNCTION	0.03	4.94	0	07:57	0.00139	0.194	5226 0.866	JUNCTION	0.03	0.19	0	07:32	0.00139	0.00714
5208 0.000	JUNCTION	0.03	4.91	0	07:57	0.00139	0.193	5251 0.015	JUNCTION	0.03	1.82	0	08:00	0.00139	0.069
5211 0.087	JUNCTION	0.03	2.42	0	07:53	0.00139	0.0955	5252 0.131	JUNCTION	0.03	1.79	0	08:00	0.00139	0.0677
5212 0.079	JUNCTION	1.05	2.39	0	07:32	0.0417	0.0942	5253 0.117	JUNCTION	0.03	1.75	0	08:00	0.00139	0.0663
5213 0.125	JUNCTION	1.05	1.34	0	07:31	0.0417	0.0526	5254 0.106	JUNCTION	0.03	1.72	0	08:00	0.00139	0.065
5214 0.576	JUNCTION	0.03	0.29	0	07:32	0.00139	0.0109	5255 0.108	JUNCTION	0.03	1.68	0	20:00	0.00139	0.0637
5215 0.000	JUNCTION	0.03	0.25	0	07:32	0.00139	0.00956	5256 0.110	JUNCTION	0.03	1.65	0	20:00	0.00139	0.0624
5217 0.751	JUNCTION	0.03	0.22	0	07:34	0.00139	0.00823	5257 0.125	JUNCTION	0.03	1.61	0	20:00	0.00139	0.0611
5218 0.903	JUNCTION	0.03	0.18	0	07:30	0.00139	0.0069	5258 0.113	JUNCTION	0.03	1.58	0	08:00	0.00139	0.0597
5219 1.101	JUNCTION	0.03	0.15	0	19:34	0.00139	0.00557	5259 0.119	JUNCTION	0.03	1.54	0	08:00	0.00139	0.0584
5220 1.458	JUNCTION	0.03	0.11	0	07:31	0.00139	0.00424	5260 0.154	JUNCTION	0.03	1.51	0	20:00	0.00139	0.0571
5221 2.111	JUNCTION	0.03	0.08	0	07:31	0.00139	0.00291	5261 0.120	JUNCTION	0.03	1.42	0	08:00	0.00139	0.054
5222 3.925	JUNCTION	0.03	0.04	0	07:33	0.00139	0.00158	5262 0.196	JUNCTION	0.03	0.88	0	08:00	0.00139	0.0333

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

5263 0.184	JUNCTION	0.03	0.91	0	08:00	0.00139	0.0346	5293 0.206	JUNCTION	0.22	0.82	0	07:17	0.00874	0.0324
5264 0.184	JUNCTION	0.03	0.95	0	08:00	0.00139	0.036	5294 0.272	JUNCTION	0.22	0.60	0	07:17	0.00874	0.0237
5265 0.176	JUNCTION	0.03	0.98	0	20:00	0.00139	0.0373	5295 0.384	JUNCTION	0.22	0.38	0	07:14	0.00874	0.015
5266 0.176	JUNCTION	0.03	1.02	0	08:00	0.00139	0.0386	5296 0.700	JUNCTION	0.22	0.22	0	07:00	0.00874	0.00874
5267 0.171	JUNCTION	0.03	1.05	0	20:00	0.00139	0.0399	5297 0.560	JUNCTION	0.22	0.28	0	07:14	0.00874	0.0111
5268 0.392	JUNCTION	0.03	0.42	0	07:23	0.00139	0.0159	5298 0.304	JUNCTION	0.22	0.50	0	07:12	0.00874	0.0198
5269 0.426	JUNCTION	0.03	0.38	0	07:23	0.00139	0.0146	5299 0.191	JUNCTION	0.22	0.72	0	07:13	0.00874	0.0285
5270 0.471	JUNCTION	0.03	0.35	0	07:22	0.00139	0.0133	5300 0.172	JUNCTION	0.22	0.94	0	07:36	0.00874	0.0372
5271 0.525	JUNCTION	0.03	0.31	0	07:22	0.00139	0.0119	5303 0.036	JUNCTION	0.22	10.59	0	07:47	0.00874	0.419
5272 0.583	JUNCTION	0.03	0.28	0	07:21	0.00139	0.0106	5304 0.000	JUNCTION	0.22	10.37	0	19:58	0.00874	0.41
5273 0.666	JUNCTION	0.03	0.24	0	07:21	0.00139	0.00927	5306 0.020	JUNCTION	0.22	10.15	0	07:45	0.00874	0.401
5274 0.770	JUNCTION	0.03	0.21	0	07:21	0.00139	0.00794	5307 0.048	JUNCTION	0.22	9.93	0	07:55	0.00874	0.393
5287 0.104	JUNCTION	0.22	1.70	0	07:35	0.00874	0.0671	5308 0.219	JUNCTION	0.22	0.81	0	07:24	0.00874	0.0321
5288 0.094	JUNCTION	0.22	1.48	0	07:05	0.00874	0.0584	5309 0.287	JUNCTION	0.22	0.59	0	07:16	0.00874	0.0234
5289 0.000	JUNCTION	0.22	1.26	0	07:16	0.00874	0.0497	5310 0.436	JUNCTION	0.22	0.37	0	07:06	0.00874	0.0147
5292 0.168	JUNCTION	0.22	1.04	0	07:15	0.00874	0.0411	5311 0.701	JUNCTION	0.22	0.22	0	07:00	0.00874	0.00874

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

5312	JUNCTION	0.22	0.29	0	07:06	0.00874	0.0114	5329	JUNCTION	0.22	3.29	0	07:28	0.00874	0.13
0.555								0.077							
5313	JUNCTION	0.22	0.51	0	07:17	0.00874	0.0201	5330	JUNCTION	0.22	3.95	0	19:49	0.00874	0.156
0.327								0.066							
5314	JUNCTION	0.22	0.73	0	19:26	0.00874	0.0288	5331	JUNCTION	0.22	4.17	0	19:49	0.00874	0.164
0.227								0.077							
5315	JUNCTION	0.22	0.95	0	07:47	0.00874	0.0375	5332	JUNCTION	0.22	4.39	0	19:43	0.00874	0.173
0.177								0.141							
5316	JUNCTION	0.22	1.17	0	07:48	0.00874	0.0461	5333	JUNCTION	0.22	4.61	0	19:43	0.00874	0.182
0.141								0.014							
5317	JUNCTION	0.22	1.39	0	07:58	0.00874	0.0548	5334	JUNCTION	0.22	4.83	0	07:32	0.00874	0.19
0.119								0.036							
5318	JUNCTION	0.22	1.61	0	07:32	0.00874	0.0635	5337	JUNCTION	0.22	1.54	0	07:30	0.00874	0.0608
0.105								0.085							
5319	JUNCTION	0.22	1.83	0	07:26	0.00874	0.0722	5338	JUNCTION	0.22	1.32	0	07:21	0.00874	0.0521
0.094								0.095							
5320	JUNCTION	0.22	2.05	0	07:32	0.00874	0.0808	5339	JUNCTION	0.22	1.10	0	07:20	0.00874	0.0434
0.085								0.118							
5321	JUNCTION	1.98	4.02	0	07:26	0.0785	0.159	5340	JUNCTION	0.22	0.88	0	07:21	0.00874	0.0348
0.046								0.192							
5322	JUNCTION	0.22	4.24	0	07:26	0.00874	0.168	5342	JUNCTION	0.22	0.66	0	07:20	0.00874	0.0261
0.052								0.250							
5323	JUNCTION	0.22	4.46	0	19:47	0.00874	0.177	5343	JUNCTION	0.22	0.44	0	07:17	0.00874	0.0174
0.060								0.376							
5325	JUNCTION	0.22	2.41	0	07:27	0.00874	0.0954	5344	JUNCTION	0.22	0.22	0	07:00	0.00874	0.00874
0.070								0.727							
5326	JUNCTION	0.22	2.63	0	07:37	0.00874	0.104	5503	JUNCTION	0.11	21.47	0	20:00	0.00437	0.972
0.066								0.011							
5327	JUNCTION	0.22	2.85	0	19:54	0.00874	0.113	5504	JUNCTION	0.11	21.36	0	20:00	0.00437	0.968
0.061								0.044							
5328	JUNCTION	0.22	3.07	0	07:43	0.00874	0.121	5505	JUNCTION	0.11	21.25	0	20:00	0.00437	0.964
0.059								0.021							

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

5506 0.021	JUNCTION	0.11	21.14	0	20:00	0.00437	0.96	5522 1.013	JUNCTION	0.11	0.16	0	07:15	0.00437	0.0062
5507 0.023	JUNCTION	0.11	21.03	0	20:00	0.00437	0.956	5523 0.607	JUNCTION	0.11	0.27	0	07:25	0.00437	0.0105
5508 0.035	JUNCTION	0.11	5.51	0	20:00	0.00437	0.211	5524 0.426	JUNCTION	0.11	0.38	0	07:25	0.00437	0.0148
5509 0.047	JUNCTION	0.11	5.40	0	20:00	0.00437	0.206	5527 0.109	JUNCTION	0.11	1.67	0	07:48	0.00437	0.0644
5510 0.039	JUNCTION	0.11	5.29	0	20:00	0.00437	0.202	5528 0.146	JUNCTION	0.11	1.78	0	07:54	0.00437	0.0687
5511 0.048	JUNCTION	0.11	5.18	0	20:00	0.00437	0.198	5529 0.111	JUNCTION	0.11	1.89	0	07:53	0.00437	0.073
5512 0.042	JUNCTION	0.11	5.07	0	20:00	0.00437	0.193	5530 0.121	JUNCTION	0.11	2.00	0	07:48	0.00437	0.0772
5513 0.054	JUNCTION	0.11	4.96	0	20:00	0.00437	0.189	5531 0.091	JUNCTION	0.11	2.11	0	07:54	0.00437	0.0815
5514 0.041	JUNCTION	0.11	4.85	0	20:00	0.00437	0.185	5532 0.083	JUNCTION	0.11	2.22	0	07:58	0.00437	0.0858
5515 0.042	JUNCTION	0.11	4.74	0	20:00	0.00437	0.181	5533 0.087	JUNCTION	0.11	2.33	0	07:56	0.00437	0.0901
5516 0.077	JUNCTION	0.11	4.63	0	20:00	0.00437	0.176	5534 0.090	JUNCTION	0.11	2.44	0	07:57	0.00437	0.0944
5517 0.054	JUNCTION	0.11	4.52	0	20:00	0.00437	0.172	5535 0.081	JUNCTION	0.11	2.55	0	07:57	0.00437	0.0987
5518 0.045	JUNCTION	0.11	4.41	0	20:00	0.00437	0.168	5536 0.075	JUNCTION	0.11	2.66	0	19:56	0.00437	0.103
5519 0.051	JUNCTION	0.11	4.30	0	20:00	0.00437	0.164	5537 0.077	JUNCTION	0.11	2.77	0	19:56	0.00437	0.107
5520 0.905	JUNCTION	0.11	0.17	0	07:15	0.00437	0.00685	5538 0.080	JUNCTION	0.11	2.88	0	07:57	0.00437	0.112
5521 1.396	JUNCTION	0.11	0.11	0	07:00	0.00437	0.00437	5539 0.015	JUNCTION	0.11	3.88	0	07:59	0.00437	0.15

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

5540 0.000	JUNCTION	0.11	6.70	0	20:00	0.00437	0.262	661 0.016	JUNCTION	0.03	10.81	0	20:00	0.00139	0.518	
5541 0.485	JUNCTION	0.11	0.33	0	07:09	0.00437	0.013	662 0.017	JUNCTION	0.03	10.78	0	20:00	0.00139	0.517	
5542 1.377	JUNCTION	0.11	0.11	0	07:00	0.00437	0.00437	663 0.026	JUNCTION	0.03	10.74	0	20:00	0.00139	0.516	
600 3.270	JUNCTION	0.03	0.05	0	07:21	0.00139	0.00188	664 0.018	JUNCTION	0.03	10.71	0	20:00	0.00139	0.515	
601 4.444	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	665 0.017	JUNCTION	0.03	10.67	0	20:00	0.00139	0.513	
602 1.732	JUNCTION	0.03	0.09	0	07:24	0.00139	0.00356	666 0.016	JUNCTION	0.03	10.64	0	20:00	0.00139	0.512	
603 1.258	JUNCTION	0.03	0.13	0	07:25	0.00139	0.00489	667 0.018	JUNCTION	0.03	10.60	0	20:00	0.00139	0.511	
604 0.994	JUNCTION	0.03	0.16	0	07:27	0.00139	0.00622	668 0.023	JUNCTION	0.03	10.57	0	20:00	0.00139	0.509	
606 0.828	JUNCTION	0.03	0.20	0	07:27	0.00139	0.00755	669 0.026	JUNCTION	0.03	10.32	0	20:00	0.00139	0.5	0.018
607 0.031	JUNCTION	0.11	0.42	0	19:08	0.00437	0.0162	670 0.026	JUNCTION	0.03	10.29	0	20:00	0.00139	0.499	
608 0.266	JUNCTION	0.11	0.66	0	07:40	0.00437	0.0257	671 0.026	JUNCTION	0.03	10.25	0	20:00	0.00139	0.498	
609 0.000	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	672 0.021	JUNCTION	0.03	10.22	0	20:00	0.00139	0.496	
611 1.138	JUNCTION	0.03	0.14	0	07:59	0.00139	0.00538	673 0.000	JUNCTION	0.03	10.18	0	20:00	0.00139	0.495	
612 1.542	JUNCTION	0.03	0.11	0	07:45	0.00139	0.00405	674 0.025	JUNCTION	0.03	10.04	0	20:00	0.00139	0.49	
613 4.497	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	675 0.013	JUNCTION	0.03	10.01	0	20:00	0.00139	0.488	
660 0.021	JUNCTION	0.03	11.06	0	20:00	0.00139	0.528	676 0.750	JUNCTION	0.03	0.21	0	07:46	0.00139	0.00804	
								677 0.947	JUNCTION	0.03	0.18	0	07:25	0.00139	0.00671	



*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

678	JUNCTION	0.03	0.14	0	07:29	0.00139	0.00538	728	JUNCTION	0.03	2.24	0	07:40	0.00139	0.0881	
1.162								0.083								
679	JUNCTION	0.03	0.11	0	07:29	0.00139	0.00405	729	JUNCTION	0.03	2.21	0	07:54	0.00139	0.0868	
1.522								0.115								
680	JUNCTION	0.03	0.07	0	07:23	0.00139	0.00272	730	JUNCTION	0.03	2.17	0	19:40	0.00139	0.0855	
2.287								0.084								
682	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	731	JUNCTION	0.03	2.14	0	07:36	0.00139	0.0841	
4.455								0.074								
688	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	732	JUNCTION	0.26	2.10	0	07:39	0.0103	0.0828	
4.451								0.109								
689	JUNCTION	0.03	0.07	0	07:22	0.00139	0.00272	733	JUNCTION	0.03	1.84	0	07:58	0.00139	0.0726	
2.262								0.095								
690	JUNCTION	0.03	0.11	0	07:23	0.00139	0.00405	734	JUNCTION	0.03	1.68	0	19:35	0.00139	0.066	
1.533								0.108								
691	JUNCTION	0.03	0.14	0	07:27	0.00139	0.00538	735	JUNCTION	0.22	1.64	0	07:33	0.00874	0.0647	
1.151								0.141								
692	JUNCTION	0.03	0.18	0	07:29	0.00139	0.00671	736	JUNCTION	0.22	1.42	0	19:33	0.00874	0.0561	
0.926								0.124								
693	JUNCTION	0.03	11.02	0	20:00	0.00139	0.526	737	JUNCTION	0.22	1.20	0	07:32	0.00874	0.0474	
0.016								0.146								
722	JUNCTION	0.03	4.87	0	19:51	0.00139	0.191	738	JUNCTION	0.22	0.98	0	07:31	0.00874	0.0387	
0.048								0.177								
723	JUNCTION	0.03	2.42	0	19:56	0.00139	0.0946	739	JUNCTION	0.22	0.76	0	07:31	0.00874	0.03	0.218
0.052								74	JUNCTION	0.03	9.04	0	07:00	0.00139	0.452	0.025
724	JUNCTION	0.03	2.38	0	07:42	0.00139	0.0933	740	JUNCTION	0.22	0.54	0	07:43	0.00874	0.0214	
0.142								0.317								
725	JUNCTION	0.03	2.35	0	07:41	0.00139	0.092	741	JUNCTION	0.22	0.32	0	07:10	0.00874	0.0127	
0.093								0.511								
726	JUNCTION	0.03	2.31	0	07:54	0.00139	0.0907	742	JUNCTION	0.22	0.22	0	07:00	0.00874	0.00874	
0.080								0.707								
727	JUNCTION	0.03	2.28	0	19:53	0.00139	0.0894	743	JUNCTION	0.22	0.34	0	07:10	0.00874	0.0135	
0.088								0.778								

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

744	JUNCTION	0.22	0.56	0	07:22	0.00874	0.0221	760	JUNCTION	0.22	9.51	0	07:48	0.00874	0.374	
0.299								0.029								
745	JUNCTION	0.22	0.78	0	07:32	0.00874	0.0308	761	JUNCTION	0.22	9.73	0	07:49	0.00874	0.383	
0.208								0.029								
746	JUNCTION	0.22	1.00	0	07:43	0.00874	0.0395	762	JUNCTION	0.22	9.95	0	07:50	0.00874	0.391	
0.169								0.022								
747	JUNCTION	0.22	1.22	0	07:49	0.00874	0.0481	763	JUNCTION	0.22	10.17	0	07:57	0.00874	0.4	0.021
0.138								764	JUNCTION	0.22	10.39	0	07:58	0.00874	0.409	
748	JUNCTION	0.22	1.44	0	07:49	0.00874	0.0568	0.021								
0.126								765	JUNCTION	0.22	10.61	0	07:58	0.00874	0.417	
749	JUNCTION	0.22	1.66	0	07:52	0.00874	0.0655	0.022								
0.103								766	JUNCTION	0.22	10.83	0	07:55	0.00874	0.426	
750	JUNCTION	0.22	1.88	0	07:26	0.00874	0.0742	0.029								
0.095								767	JUNCTION	0.22	11.05	0	07:52	0.00874	0.435	
751	JUNCTION	0.22	2.10	0	19:55	0.00874	0.0828	0.017								
0.082								768	JUNCTION	0.22	11.27	0	07:47	0.00874	0.443	
752	JUNCTION	0.22	7.61	0	20:00	0.00874	0.299	0.023								
0.036								769	JUNCTION	0.22	11.49	0	07:56	0.00874	0.452	
753	JUNCTION	0.22	7.97	0	07:43	0.00874	0.314	0.017								
0.064								773	JUNCTION	0.22	0.22	0	07:00	0.00874	0.00874	
754	JUNCTION	0.22	8.19	0	07:50	0.00874	0.322	0.000								
0.027								78	JUNCTION	0.22	1.22	0	07:25	0.00874	0.0483	
755	JUNCTION	0.22	8.41	0	19:52	0.00874	0.331	0.129								
0.022								79	JUNCTION	0.22	1.00	0	19:02	0.00874	0.0396	
756	JUNCTION	0.22	8.63	0	07:47	0.00874	0.339	0.122								
0.026								80	JUNCTION	0.22	0.78	0	07:08	0.00874	0.0309	
757	JUNCTION	0.22	8.85	0	07:53	0.00874	0.348	0.213								
0.026								81	JUNCTION	0.22	0.56	0	07:09	0.00874	0.0223	
758	JUNCTION	0.22	9.07	0	07:53	0.00874	0.357	0.274								
0.027								813	JUNCTION	0.11	27.89	0	07:56	0.00437	1.18	
759	JUNCTION	0.22	9.29	0	07:51	0.00874	0.365	0.014								
0.024								814	JUNCTION	0.11	28.11	0	08:00	0.00437	1.19	
								0.015								

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

816 0.039	JUNCTION	0.22	9.08	0	07:56	0.00874	0.357		832 0.158	JUNCTION	0.22	1.10	0	07:27	0.00874	0.0435	
817 0.038	JUNCTION	0.22	8.86	0	07:32	0.00874	0.349		833 0.196	JUNCTION	0.22	0.88	0	07:17	0.00874	0.0348	
818 82 0.467	JUNCTION JUNCTION	0.22 0.22	8.64 0.34	0 0	07:51 07:07	0.00874 0.00874	0.34 0.0136	0.030	834 0.243	JUNCTION JUNCTION	0.22 0.22	0.66 0.44	0 0	07:17 07:12	0.00874 0.00874	0.0261 0.0174	
820 0.054	JUNCTION	0.22	3.74	0	07:25	0.00874	0.147		835 0.375	JUNCTION	0.22	0.44	0	07:12	0.00874	0.0174	
821 0.054	JUNCTION	0.22	3.52	0	07:32	0.00874	0.139		836 0.000	JUNCTION	0.22	0.22	0	07:00	0.00874	0.00874	
822 823 0.063	JUNCTION JUNCTION	0.22 0.22	3.30 3.08	0 0	07:42 07:42	0.00874 0.00874	0.13 0.121	0.059	84 0.497	JUNCTION	0.22	0.32	0	07:07	0.00874	0.0126	
824 0.068	JUNCTION	0.22	2.86	0	07:59	0.00874	0.113		843 0.126	JUNCTION	0.22	1.82	0	08:00	0.00874	0.07	0.109
825 0.070	JUNCTION	0.22	2.64	0	07:59	0.00874	0.104		844 0.126	JUNCTION	0.03	1.60	0	08:00	0.00139	0.0613	
826 0.075	JUNCTION	0.22	2.42	0	07:59	0.00874	0.0955		845 0.129	JUNCTION	0.03	1.57	0	08:00	0.00139	0.06	0.000
827 0.083	JUNCTION	0.22	2.20	0	07:39	0.00874	0.0868		846 0.129	JUNCTION	0.03	1.50	0	08:00	0.00139	0.0573	
828 0.090	JUNCTION	0.22	1.98	0	07:39	0.00874	0.0781		847 0.220	JUNCTION	0.03	1.46	0	07:28	0.00139	0.0561	
829 0.099	JUNCTION	0.22	1.76	0	19:39	0.00874	0.0695		848 0.144	JUNCTION	0.03	1.43	0	07:28	0.00139	0.0548	
83 0.699	JUNCTION	0.22	0.22	0	07:00	0.00874	0.00874		849 0.000	JUNCTION	0.03	1.39	0	07:27	0.00139	0.0534	
830 0.131	JUNCTION	0.22	1.54	0	19:39	0.00874	0.0608		85 0.298	JUNCTION	0.22	0.54	0	07:12	0.00874	0.0213	
831 0.143	JUNCTION	0.22	1.32	0	19:40	0.00874	0.0521		850 0.137	JUNCTION	0.03	1.32	0	07:26	0.00139	0.0508	
									851 0.107	JUNCTION	0.03	1.22	0	07:25	0.00139	0.0468	
									852 0.185	JUNCTION	0.03	1.18	0	07:25	0.00139	0.0455	

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

853	JUNCTION	0.03	1.15	0	07:24	0.00139	0.0442		872	JUNCTION	0.22	10.44	0	07:00	0.00874	0.55	
0.151									0.021								
854	JUNCTION	0.03	1.11	0	07:24	0.00139	0.0429		873	JUNCTION	0.22	10.66	0	07:01	0.00874	0.558	
0.154									0.024								
855	JUNCTION	0.03	1.08	0	07:23	0.00139	0.0415		874	JUNCTION	0.22	10.88	0	19:02	0.00874	0.567	
0.159									0.023								
856	JUNCTION	0.03	1.04	0	07:23	0.00139	0.0402		878	JUNCTION	0.22	0.78	0	19:29	0.00874	0.0309	
0.163									0.202								
857	JUNCTION	0.03	1.01	0	19:23	0.00139	0.0389		879	JUNCTION	0.22	0.39	0	07:33	0.00874	0.0156	
0.169									0.413								
858	JUNCTION	0.03	0.97	0	07:22	0.00139	0.0376		880	JUNCTION	0.03	0.43	0	07:26	0.00139	0.017	
0.181									0.439								
859	JUNCTION	0.03	0.94	0	07:22	0.00139	0.0362		881	JUNCTION	0.03	0.46	0	07:33	0.00139	0.0183	
0.184									0.431								
86	JUNCTION	0.22	0.76	0	07:18	0.00874	0.0299		882	JUNCTION	0.03	0.50	0	19:51	0.00139	0.0196	
0.000									0.327								
860	JUNCTION	0.03	0.90	0	07:21	0.00139	0.0349		883	JUNCTION	0.03	0.53	0	19:55	0.00139	0.0209	
0.197									0.309								
863	JUNCTION	0.22	7.83	0	20:00	0.00874	0.308		884	JUNCTION	0.03	0.57	0	19:55	0.00139	0.0223	
0.046									0.310								
864	JUNCTION	0.22	8.05	0	20:00	0.00874	0.316		885	JUNCTION	0.03	0.60	0	19:55	0.00139	0.0236	
0.042									0.271								
865	JUNCTION	0.22	8.27	0	20:00	0.00874	0.325		886	JUNCTION	0.03	0.26	0	07:21	0.00139	0.0101	
0.017									0.611								
866	JUNCTION	4.57	12.84	0	20:00	0.182	0.507	0.021	887	JUNCTION	0.03	0.23	0	19:07	0.00139	0.00875	
867	JUNCTION	0.22	13.06	0	20:00	0.00874	0.515		0.772								
0.018									888	JUNCTION	0.03	0.19	0	07:24	0.00139	0.00742	
868	JUNCTION	0.22	13.28	0	20:00	0.00874	0.524		0.857								
0.024									889	JUNCTION	0.03	0.16	0	07:24	0.00139	0.0061	
87	JUNCTION	0.11	5.66	0	19:47	0.00437	0.222	0.082	1.022								
871	JUNCTION	0.22	10.22	0	07:00	0.00874	0.541		89	JUNCTION	0.11	2.94	0	07:11	0.00437	0.117	0.028
0.025									890	JUNCTION	0.03	0.12	0	07:24	0.00139	0.00477	
									1.299								

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

891	JUNCTION	0.03	0.09	0	07:22	0.00139	0.00344	907	JUNCTION	0.03	0.61	0	07:35	0.00139	0.0231	
1.794								0.284								
892	JUNCTION	0.03	0.05	0	07:24	0.00139	0.00211	908	JUNCTION	0.03	0.64	0	07:50	0.00139	0.0244	
2.938								0.283								
893	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	909	JUNCTION	0.03	0.68	0	07:40	0.00139	0.0257	
4.442								0.255								
894	JUNCTION	0.03	0.05	0	07:24	0.00139	0.00201	91	JUNCTION	0.22	0.33	0	07:15	0.00874	0.0131	
3.066								0.528								
896	JUNCTION	0.03	0.22	0	07:32	0.00139	0.00847	910	JUNCTION	0.03	0.71	0	07:40	0.00139	0.027	
0.755								0.246								
897	JUNCTION	0.03	0.26	0	19:37	0.00139	0.0098	911	JUNCTION	0.03	0.75	0	07:58	0.00139	0.0284	
0.645								0.235								
898	JUNCTION	0.03	0.29	0	19:40	0.00139	0.0111	912	JUNCTION	0.03	0.78	0	07:42	0.00139	0.0297	
0.551								0.236								
899	JUNCTION	0.03	0.33	0	19:39	0.00139	0.0125	913	JUNCTION	0.03	0.82	0	07:49	0.00139	0.031	
0.504								0.026								
90	JUNCTION	0.22	0.22	0	07:00	0.00874	0.00874	914	JUNCTION	0.11	1.93	0	07:40	0.00437	0.0755	
0.699								0.037								
900	JUNCTION	0.03	0.36	0	07:37	0.00139	0.0138	92	JUNCTION	0.03	0.37	0	07:03	0.00139	0.0145	
0.465								0.481								
901	JUNCTION	0.03	0.40	0	19:59	0.00139	0.0151	93	JUNCTION	0.03	0.40	0	07:04	0.00139	0.0158	
0.418								0.432								
902	JUNCTION	0.03	0.43	0	07:32	0.00139	0.0164	936	JUNCTION	0.03	1.37	0	07:57	0.00139	0.054	
0.392								0.124								
903	JUNCTION	0.03	0.47	0	07:39	0.00139	0.0178	937	JUNCTION	0.03	1.34	0	07:59	0.00139	0.0526	
0.366								0.130								
904	JUNCTION	0.03	0.50	0	07:59	0.00139	0.0191	938	JUNCTION	0.03	1.30	0	07:59	0.00139	0.0513	
0.338								0.096								
905	JUNCTION	0.03	0.54	0	07:46	0.00139	0.0204	939	JUNCTION	0.03	1.27	0	07:53	0.00139	0.05	0.111
0.311								94	JUNCTION	0.03	0.44	0	07:27	0.00139	0.0171	
906	JUNCTION	0.03	0.57	0	07:39	0.00139	0.0217	0.444								
0.294								940	JUNCTION	1.13	1.23	0	07:51	0.0447	0.0487	
								0.235								

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

941 1.566	JUNCTION	0.03	0.11	0 07:48	0.00139	0.00405	962 0.571	JUNCTION	0.03	0.29	0 07:51	0.00139	0.0112
942 2.293	JUNCTION	0.03	0.07	0 07:27	0.00139	0.00272	963 0.671	JUNCTION	0.03	0.26	0 07:43	0.00139	0.00984
943 0.000	JUNCTION	0.03	0.03	0 07:00	0.00139	0.00139	964 0.750	JUNCTION	0.03	0.22	0 07:43	0.00139	0.00851
949 0.084	JUNCTION	0.03	2.31	0 20:00	0.00139	0.0862	965 0.871	JUNCTION	0.03	0.19	0 07:43	0.00139	0.00718
95 0.301	JUNCTION	0.03	0.47	0 07:40	0.00139	0.0184	966 1.077	JUNCTION	0.03	0.15	0 07:29	0.00139	0.00586
950 0.094	JUNCTION	0.03	2.35	0 20:00	0.00139	0.0876	967 1.379	JUNCTION	0.03	0.12	0 07:26	0.00139	0.00453
952 0.102	JUNCTION	0.03	2.38	0 20:00	0.00139	0.0889	968 1.953	JUNCTION	0.03	0.08	0 07:25	0.00139	0.0032
953 0.134	JUNCTION	0.03	2.42	0 20:00	0.00139	0.0902	969 3.336	JUNCTION	0.03	0.05	0 07:21	0.00139	0.00187
954 0.075	JUNCTION	0.03	2.45	0 20:00	0.00139	0.0914	97 0.000	JUNCTION	0.03	10.79	0 07:40	0.00139	0.424
955 0.143	JUNCTION	0.03	1.26	0 20:00	0.00139	0.0479	970 4.442	JUNCTION	0.03	0.03	0 07:00	0.00139	0.00139
956 0.139	JUNCTION	0.03	1.77	0 20:00	0.00139	0.067	972 3.458	JUNCTION	0.03	0.05	0 07:21	0.00139	0.00179
958 0.413	JUNCTION	0.03	0.43	0 19:53	0.00139	0.0165	973 1.378	JUNCTION	0.03	0.12	0 07:34	0.00139	0.00445
959 0.437	JUNCTION	0.03	0.40	0 07:55	0.00139	0.0151	974 1.063	JUNCTION	0.03	0.15	0 07:27	0.00139	0.00578
96 0.312	JUNCTION	0.03	0.51	0 07:40	0.00139	0.0198	975 0.874	JUNCTION	0.03	0.19	0 07:32	0.00139	0.00711
960 0.465	JUNCTION	0.03	0.36	0 19:55	0.00139	0.0138	976 0.745	JUNCTION	0.03	0.22	0 07:31	0.00139	0.00844
961 0.502	JUNCTION	0.03	0.33	0 07:53	0.00139	0.0125	977 0.660	JUNCTION	0.03	0.26	0 07:31	0.00139	0.00977

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

978	JUNCTION	0.03	0.29	0	07:34	0.00139	0.0111	998	JUNCTION	0.22	5.18	0	19:31	0.00874	0.204		
0.581								0.037									
979	JUNCTION	0.03	0.33	0	07:27	0.00139	0.0124	999	JUNCTION	0.22	4.96	0	19:31	0.00874	0.195		
0.547								0.041									
980	JUNCTION	0.03	0.36	0	19:48	0.00139	0.0137	75	JUNCTION	0.03	0.11	0	07:21	0.00139	0.00405		
0.475								1.516									
981	JUNCTION	0.03	0.47	0	19:53	0.00139	0.0177	76	JUNCTION	0.03	0.61	0	07:33	0.00139	0.0231		
0.353								0.277									
982	JUNCTION	0.03	0.07	0	07:29	0.00139	0.00272	77	JUNCTION	0.03	6.53	0	07:30	0.00139	0.257	0.005	
2.285								88	JUNCTION	0.03	0.50	0	20:00	0.00139	0.019	0.372	
983	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	98	JUNCTION	0.03	0.17	0	07:59	0.00139	0.00671		
0.000								0.918									
987	JUNCTION	0.03	0.03	0	07:00	0.00139	0.00139	106	JUNCTION	0.03	0.07	0	07:40	0.00139	0.00272		
0.000								2.296									
989	JUNCTION	0.22	7.19	0	07:51	0.00874	0.283	107	JUNCTION	0.11	4.31	0	19:58	0.00437	0.169		
0.032								0.057									
99	JUNCTION	0.03	10.25	0	19:38	0.00139	0.403	108	JUNCTION	0.03	11.41	0	20:00	0.00139	0.54		
0.030								0.025									
990	JUNCTION	0.22	6.97	0	07:51	0.00874	0.275	109	JUNCTION	0.03	11.34	0	20:00	0.00139	0.538		
0.024								0.019									
991	JUNCTION	0.22	6.75	0	07:41	0.00874	0.266	110	JUNCTION	0.11	11.17	0	07:56	0.00437	0.429	-	
0.000								0.013									
992	JUNCTION	0.22	6.50	0	07:29	0.00874	0.256	111	JUNCTION	0.11	11.39	0	07:55	0.00437	0.437		
0.060								0.026									
993	JUNCTION	0.22	6.28	0	07:36	0.00874	0.247	112	JUNCTION	0.22	0.98	0	07:14	0.00874	0.0389		
0.028								0.162									
994	JUNCTION	0.22	6.06	0	07:28	0.00874	0.239	113	JUNCTION	0.22	0.54	0	07:09	0.00874	0.0216		
0.091								0.296									
995	JUNCTION	0.22	5.84	0	07:44	0.00874	0.23	0.032	114	JUNCTION	0.11	7.65	0	07:52	0.00437	0.291	
996	JUNCTION	0.22	5.62	0	07:29	0.00874	0.221	0.022	115	JUNCTION	1.15	8.46	0	07:51	0.0457	0.335	0.035
0.033									116	JUNCTION	1.15	6.16	0	07:56	0.0457	0.244	0.051
997	JUNCTION	0.22	5.40	0	19:43	0.00874	0.213		117	JUNCTION	1.15	4.79	0	07:43	0.0457	0.189	0.045
0.037																	

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

118	JUNCTION	1.15	2.84	0	07:38	0.0457	0.112	0.089	261	JUNCTION	0.22	12.19	0	07:48	0.00874	0.482	
119	JUNCTION	0.03	0.15	0	07:09	0.00139	0.00594		0.020								
1.034									262	JUNCTION	0.03	1.29	0	07:26	0.00139	0.0495	
120	JUNCTION	0.03	13.97	0	19:59	0.00139	0.551		0.141								
0.032									263	JUNCTION	0.03	1.25	0	07:25	0.00139	0.0482	
121	JUNCTION	0.03	14.15	0	19:53	0.00139	0.557		0.143								
0.020									264	JUNCTION	0.03	1.36	0	07:27	0.00139	0.0521	
154	JUNCTION	0.03	14.25	0	07:51	0.00139	0.561		0.131								
0.032									265	JUNCTION	0.03	1.53	0	08:00	0.00139	0.0587	
213	JUNCTION	0.03	14.29	0	07:57	0.00139	0.562		0.127								
0.024									266	JUNCTION	0.11	25.78	0	20:00	0.00437	1.14	
214	JUNCTION	0.03	14.18	0	07:51	0.00139	0.559		0.037								
0.012									1	JUNCTION	0.11	0.11	0	07:00	0.00437	0.00437	
215	JUNCTION	0.03	6.62	0	07:51	0.00139	0.261		0.098								
0.079									6	JUNCTION	0.11	0.53	0	07:08	0.00437	0.0206	0.037
216	JUNCTION	0.03	17.14	0	07:52	0.00139	0.673		7	JUNCTION	0.11	0.64	0	07:09	0.00437	0.025	0.030
0.021									8	JUNCTION	0.11	0.75	0	07:10	0.00437	0.0293	0.023
217	JUNCTION	0.03	17.10	0	07:58	0.00139	0.672		9	JUNCTION	0.11	0.86	0	07:11	0.00437	0.0337	0.023
0.020									10	JUNCTION	0.11	0.97	0	07:12	0.00437	0.038	0.018
218	JUNCTION	0.03	17.03	0	07:55	0.00139	0.67		11	JUNCTION	0.11	1.08	0	07:12	0.00437	0.0424	
0.023									0.021								
240	JUNCTION	0.03	14.36	0	07:50	0.00139	0.565		12	JUNCTION	0.11	1.19	0	07:12	0.00437	0.0468	
0.012									0.015								
241	JUNCTION	0.03	14.04	0	07:48	0.00139	0.554		13	JUNCTION	0.11	1.30	0	07:13	0.00437	0.0511	
0.020									0.012								
242	JUNCTION	0.22	13.83	0	07:59	0.00874	0.546		14	JUNCTION	0.11	2.27	0	20:00	0.00437	0.0885	
0.018									0.007								
243	JUNCTION	0.22	13.58	0	07:52	0.00874	0.536		15	JUNCTION	0.11	2.38	0	08:00	0.00437	0.0928	
0.021									0.014								
259	JUNCTION	0.22	13.29	0	07:54	0.00874	0.525		16	JUNCTION	0.11	2.49	0	08:00	0.00437	0.0972	
0.008									0.015								
260	JUNCTION	0.22	12.41	0	07:45	0.00874	0.49		17	JUNCTION	0.11	2.60	0	08:00	0.00437	0.102	0.016
0.025									18	JUNCTION	0.11	2.71	0	08:00	0.00437	0.106	0.014



*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

19	JUNCTION	0.11	2.82	0	08:00	0.00437	0.11	0.015	43	JUNCTION	0.11	15.52	0	07:19	0.00437	0.702	
20	JUNCTION	0.11	2.93	0	08:00	0.00437	0.115	0.014	0.003								
21	JUNCTION	0.11	3.04	0	08:00	0.00437	0.119	0.017	44	JUNCTION	0.11	15.41	0	07:19	0.00437	0.697	
22	JUNCTION	0.11	3.15	0	08:00	0.00437	0.123	0.016	0.005								
23	JUNCTION	0.11	3.26	0	08:00	0.00437	0.128	0.013	45	JUNCTION	0.11	15.30	0	19:19	0.00437	0.693	
24	JUNCTION	0.11	3.37	0	08:00	0.00437	0.132	0.009	0.006								
25	JUNCTION	0.11	5.30	0	08:00	0.00437	0.205	0.023	46	JUNCTION	0.11	15.19	0	07:19	0.00437	0.689	
26	JUNCTION	0.11	5.41	0	08:00	0.00437	0.21	0.015	0.005								
27	JUNCTION	0.11	5.52	0	08:00	0.00437	0.214	0.019	47	JUNCTION	0.11	15.08	0	19:18	0.00437	0.684	
28	JUNCTION	0.11	5.63	0	08:00	0.00437	0.218	0.007	0.007								
29	JUNCTION	0.11	5.74	0	08:00	0.00437	0.223	0.009	48	JUNCTION	0.11	14.97	0	07:18	0.00437	0.68	0.007
30	JUNCTION	0.11	5.85	0	08:00	0.00437	0.227	0.004	49	JUNCTION	0.11	14.86	0	07:18	0.00437	0.676	
31	JUNCTION	0.11	18.87	0	20:00	0.00437	0.83	0.007	0.004								
32	JUNCTION	0.11	12.91	0	20:00	0.00437	0.598		50	JUNCTION	0.11	14.75	0	07:18	0.00437	0.671	
0.012									0.006								
33	JUNCTION	0.11	12.80	0	20:00	0.00437	0.594		51	JUNCTION	0.11	14.64	0	07:18	0.00437	0.667	
0.019									0.013								
34	JUNCTION	0.11	12.03	0	20:00	0.00437	0.565		52	JUNCTION	0.11	14.53	0	07:17	0.00437	0.663	
0.016									0.010								
35	JUNCTION	0.11	11.92	0	20:00	0.00437	0.56	0.012	53	JUNCTION	0.11	14.42	0	07:17	0.00437	0.658	
36	JUNCTION	0.11	11.81	0	20:00	0.00437	0.556		0.007								
0.011									54	JUNCTION	0.11	14.31	0	07:17	0.00437	0.654	
37	JUNCTION	0.11	16.18	0	07:21	0.00437	0.727		0.006								
0.015									55	JUNCTION	0.11	14.20	0	19:17	0.00437	0.65	0.005
38	JUNCTION	0.11	16.07	0	07:21	0.00437	0.723		56	JUNCTION	0.11	14.09	0	07:17	0.00437	0.645	
0.012									0.006								
39	JUNCTION	0.11	15.96	0	07:20	0.00437	0.719		57	JUNCTION	0.11	13.98	0	07:17	0.00437	0.641	
0.016									0.008								
40	JUNCTION	0.11	15.85	0	07:20	0.00437	0.714		58	JUNCTION	0.11	13.87	0	19:17	0.00437	0.637	
0.016									0.009								
41	JUNCTION	0.11	15.74	0	07:19	0.00437	0.71	0.014	59	JUNCTION	0.11	13.76	0	07:16	0.00437	0.632	
42	JUNCTION	0.11	15.63	0	07:19	0.00437	0.706		0.010								
0.010																	

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

60 0.006	JUNCTION	0.11	13.65	0	07:16	0.00437	0.628	276 0.015	JUNCTION	0.11	1.51	0	07:13	0.00437	0.0603	
61	JUNCTION	0.11	4.15	0	07:15	0.00437	0.165	0.017	277	JUNCTION	0.11	1.40	0	07:12	0.00437	0.0559
62	JUNCTION	0.11	4.04	0	19:15	0.00437	0.16	0.015	0.016							
63	JUNCTION	0.11	3.93	0	07:15	0.00437	0.156	0.013	278	JUNCTION	0.11	1.29	0	07:12	0.00437	0.0515
64	JUNCTION	0.11	3.82	0	19:15	0.00437	0.152	0.010	0.019							
65	JUNCTION	0.11	3.71	0	07:14	0.00437	0.147	0.011	279	JUNCTION	0.11	1.18	0	19:09	0.00437	0.0472
66	JUNCTION	0.11	3.60	0	07:14	0.00437	0.143	0.014	0.021							
67	JUNCTION	0.11	3.49	0	07:13	0.00437	0.139	0.018	280	JUNCTION	0.11	0.72	0	07:44	0.00437	0.0287
68	JUNCTION	0.11	3.38	0	07:13	0.00437	0.134	0.020	0.026							
69	JUNCTION	0.11	3.27	0	07:13	0.00437	0.13	0.016	281	JUNCTION	0.11	0.61	0	07:44	0.00437	0.0243
70	JUNCTION	0.11	3.16	0	07:12	0.00437	0.125	0.015	0.032							
71	JUNCTION	0.11	3.05	0	07:11	0.00437	0.121	0.024	282	JUNCTION	0.11	0.50	0	07:37	0.00437	0.0199
72	JUNCTION	0.11	2.72	0	07:10	0.00437	0.108	0.020	0.030							
73	JUNCTION	0.11	2.61	0	07:10	0.00437	0.104	0.018	283	JUNCTION	0.11	0.39	0	19:38	0.00437	0.0156
267	JUNCTION	0.11	2.51	0	07:08	0.00437	0.0995		0.028							
0.029									284	JUNCTION	0.11	0.28	0	07:34	0.00437	0.0112
268	JUNCTION	0.11	2.39	0	07:09	0.00437	0.0951		0.042							
0.029									285	JUNCTION	0.11	0.17	0	07:23	0.00437	0.00684
269	JUNCTION	0.11	2.28	0	07:08	0.00437	0.0908		0.054							
0.012									286	JUNCTION	0.11	0.11	0	07:00	0.00437	0.00437
270	JUNCTION	0.11	2.17	0	19:08	0.00437	0.0864		0.035							
0.015									287	JUNCTION	0.11	0.16	0	07:23	0.00437	0.00627
271	JUNCTION	0.11	2.06	0	07:08	0.00437	0.082		0.064							
0.022									288	JUNCTION	0.11	0.27	0	07:33	0.00437	0.0106
272	JUNCTION	0.11	1.95	0	19:07	0.00437	0.0777		0.049							
0.016									289	JUNCTION	0.11	0.38	0	07:33	0.00437	0.015
273	JUNCTION	0.11	1.84	0	07:07	0.00437	0.0733		0.034							
0.018									321	JUNCTION	0.11	0.49	0	07:42	0.00437	0.0194
274	JUNCTION	0.11	1.73	0	19:06	0.00437	0.069		0.036							
0.019									325	JUNCTION	0.11	0.60	0	07:44	0.00437	0.0237
275	JUNCTION	0.11	1.62	0	07:17	0.00437	0.0646		0.035							
0.025																

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

331 0.031	JUNCTION	0.11	0.71	0	07:41	0.00437	0.0281		361 0.023	JUNCTION	0.11	2.15	0	07:47	0.00437	0.0854	
344 0.017	JUNCTION	0.11	0.82	0	19:51	0.00437	0.0325		362 0.061	JUNCTION	0.11	2.04	0	07:44	0.00437	0.081	
345 0.031	JUNCTION	0.11	3.58	0	07:56	0.00437	0.143		363 0.032	JUNCTION	0.11	1.93	0	07:40	0.00437	0.0767	
346 0.022	JUNCTION	0.11	3.69	0	19:57	0.00437	0.147		364 0.028	JUNCTION	0.11	1.82	0	07:40	0.00437	0.0723	
347 0.012	JUNCTION	0.11	3.80	0	19:55	0.00437	0.151		365 0.033	JUNCTION	0.11	1.71	0	07:33	0.00437	0.068	
348 0.013	JUNCTION	0.11	3.91	0	07:47	0.00437	0.156		366 0.023	JUNCTION	0.11	1.60	0	07:28	0.00437	0.0636	
349	JUNCTION	0.11	4.02	0	07:40	0.00437	0.16	0.013	367	JUNCTION	0.11	1.38	0	07:26	0.00437	0.0549	
350 0.010	JUNCTION	0.11	4.13	0	07:49	0.00437	0.164		0.019								
351 0.009	JUNCTION	0.11	4.24	0	07:41	0.00437	0.169		368	JUNCTION	0.11	1.27	0	19:30	0.00437	0.0506	
352 0.010	JUNCTION	0.11	4.35	0	07:41	0.00437	0.173		0.018								
353 0.016	JUNCTION	0.11	4.46	0	07:42	0.00437	0.177		369	JUNCTION	0.11	1.16	0	07:25	0.00437	0.0462	
354 0.013	JUNCTION	0.11	4.57	0	07:57	0.00437	0.182		0.027								
355 0.012	JUNCTION	0.11	4.68	0	07:49	0.00437	0.186		370	JUNCTION	0.11	1.05	0	07:29	0.00437	0.0418	
356	JUNCTION	0.11	4.79	0	07:50	0.00437	0.19	0.010	0.026								
357 0.011	JUNCTION	0.11	4.90	0	07:55	0.00437	0.195		371	JUNCTION	0.11	0.94	0	07:36	0.00437	0.0375	
358 0.009	JUNCTION	0.11	5.01	0	07:50	0.00437	0.199		0.029								
360 0.025	JUNCTION	0.11	2.26	0	07:37	0.00437	0.0897		372	JUNCTION	0.11	0.83	0	19:26	0.00437	0.0331	
									0.026								
									373	JUNCTION	0.11	0.72	0	07:22	0.00437	0.0288	
									0.046								
									374	JUNCTION	0.11	0.61	0	07:16	0.00437	0.0244	
									0.038								
									375	JUNCTION	0.11	0.50	0	07:15	0.00437	0.02	0.031
									376	JUNCTION	0.11	0.39	0	07:14	0.00437	0.0157	
									0.038								
									377	JUNCTION	0.11	0.28	0	07:14	0.00437	0.0113	
									0.037								

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

378 0.049	JUNCTION	0.11	0.17	0	07:14	0.00437	0.00693	394 0.024	JUNCTION	0.11	1.70	0	07:24	0.00437	0.0672	
379 0.041	JUNCTION	0.11	0.11	0	07:00	0.00437	0.00437	395 0.026	JUNCTION	0.11	1.81	0	07:25	0.00437	0.0716	
380 0.062	JUNCTION	0.11	0.16	0	07:14	0.00437	0.00618	396 0.016	JUNCTION	0.11	1.92	0	07:26	0.00437	0.0759	
381 0.048	JUNCTION	0.11	0.27	0	07:25	0.00437	0.0105	397 0.020	JUNCTION	0.11	2.03	0	07:26	0.00437	0.0803	
382 0.034	JUNCTION	0.11	0.38	0	07:26	0.00437	0.0149	398 0.177	JUNCTION	0.11	4.24	0	08:00	0.00437	0.164	
383 0.027	JUNCTION	0.11	0.49	0	07:25	0.00437	0.0193	400 0.011	JUNCTION	0.11	11.70	0	20:00	0.00437	0.552	
384 0.029	JUNCTION	0.11	0.60	0	07:24	0.00437	0.0236	401 0.016	JUNCTION	0.11	1.49	0	07:30	0.00437	0.0593	
385 0.035	JUNCTION	0.11	0.71	0	07:26	0.00437	0.028	2	OUTFALL	0.00	52.06	0	20:00	0	2.21	0.000
386 0.045	JUNCTION	0.11	0.82	0	07:26	0.00437	0.0324	3	OUTFALL	0.00	24.53	0	07:57	0	0.962	0.000
387 0.058	JUNCTION	0.11	0.93	0	07:33	0.00437	0.0367	4	OUTFALL	0.00	35.32	0	20:00	0	1.51	0.000
388 0.038	JUNCTION	0.11	1.04	0	07:18	0.00437	0.0411	5	OUTFALL	0.00	8.99	0	20:00	0	0.346	0.000
389 0.028	JUNCTION	0.11	1.15	0	07:21	0.00437	0.0454	439 0.002	STORAGE	0.22	16.32	0	07:08	0.00874	0.686	-
390 0.022	JUNCTION	0.11	1.26	0	07:21	0.00437	0.0498	433 0.002	STORAGE	0.22	16.11	0	07:51	0.00874	0.634	-
391 0.029	JUNCTION	0.11	1.37	0	07:22	0.00437	0.0541	5170 0.002	STORAGE	0.03	11.10	0	19:45	0.00139	0.436	-
392 0.028	JUNCTION	0.11	1.48	0	07:23	0.00437	0.0585	310 0.000	STORAGE	0.03	9.25	0	07:23	0.00139	0.46	0.000
393 0.022	JUNCTION	0.11	1.59	0	07:24	0.00437	0.0629	304 0.002	STORAGE	0.03	11.43	0	19:09	0.00139	0.451	-
								1189 0.000	STORAGE	0.22	8.68	0	07:45	0.00874	0.343	
								3023 0.000	STORAGE	0.03	2.80	0	20:00	0.00139	0.106	
								3125 0.000	STORAGE	0.03	2.28	0	20:00	0.00139	0.0848	

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

236	STORAGE	0.22	5.29	0	20:00	0.00874	0.207
0.000							
870	STORAGE	0.22	13.50	0	20:00	0.00874	0.532
0.002							-
3616	STORAGE	0.03	7.79	0	08:00	0.00139	0.301
0.000							

Node	Flooded	LPS	days	hr:min	10^6 ltr	Meters
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440	23.05	15.22	0	07:03	0.693	0.000
773	19.26	0.22	0	07:04	0.008	0.000
987	4.64	0.03	0	19:20	0.000	0.000

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 Node Surcharge Summary  
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 Storage Volume Summary  
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Max. Height			Min. Depth				
		Hours	Above Crown	Below Rim	Hours	Above Crown	Below Rim		
Node	Type	Surcharged	Meters	Meters	Node	Type	Surcharged	Meters	Meters
1840	JUNCTION	23.16	0.227	0.523					
440	JUNCTION	23.98	1.000	0.000					
773	JUNCTION	23.98	1.000	0.000					
987	JUNCTION	23.98	1.000	0.000					

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 Node Flooding Summary  
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Flooding refers to all water that overflows a node, whether it ponds or not.

Total Maximum	
Maximum	Time of Max
Hours	Rate
Occurrence	Flood Poned
Volume	Depth

Maximum	Average	Avg Evap Exfil			Maximum	Max	Time of Max		
	Volume	Pcnt	Pcnt	Pcnt	Volume	Pcnt	Occurrence		
Outflow	Storage Unit	1000 m3	Full	Loss	Loss	1000 m3	Full	days	hr:min
LPS									
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439	0.000	0	0	0	0.005	1	0	08:18	15.00
433	0.000	0	0	0	0.003	1	0	08:01	15.00
5170	0.001	0	0	0	0.007	1	0	08:08	9.00
310	0.000	0	0	0	0.000	0	0	00:00	9.25
304	0.001	0	0	0	0.009	2	0	08:05	9.00
1189	0.000	0	0	0	0.000	0	0	00:00	8.68
3023	0.000	0	0	0	0.000	0	0	00:00	2.80
3125	0.000	0	0	0	0.000	0	0	00:00	2.28
236	0.000	0	0	0	0.000	0	0	00:00	5.29
870	0.002	0	0	0	0.015	2	0	20:01	10.00
3616	0.000	0	0	0	0.000	0	0	00:00	7.79

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*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

Outfall Loading Summary

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Outfall Node	Flow Freq Pcnt	Avg Flow LPS	Max Flow LPS	Total Volume 10^6 ltr
2	99.64	27.81	52.06	2.213
3	97.36	12.41	24.53	0.962
4	98.76	19.11	35.32	1.508
5	95.51	4.56	8.99	0.346
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System	97.82	63.90	120.90	5.029

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Link Flow Summary

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Link	Type	Maximum  Flow  LPS	Time of Occurrence days hr:min	Maximum  Veloc  m/sec	Max/ Full Flow	Max/ Full Depth
p77	CONDUIT	1.00	0 07:25	0.52	0.03	0.11
p78	CONDUIT	0.78	0 19:02	0.43	0.02	0.11
p79	CONDUIT	0.56	0 07:08	0.65	0.00	0.07
p80	CONDUIT	0.34	0 07:09	0.52	0.01	0.05
p81	CONDUIT	0.12	0 07:07	0.27	0.00	0.04
p82	CONDUIT	0.10	0 07:07	0.26	0.00	0.04
p83	CONDUIT	0.32	0 07:12	0.47	0.00	0.05
p84	CONDUIT	0.54	0 07:18	0.63	0.01	0.06

p87	CONDUIT	0.11	0 07:16	0.41	0.00	0.03
p88	CONDUIT	0.11	0 07:15	0.26	0.00	0.04
p89	CONDUIT	0.33	0 07:03	0.53	0.00	0.05
p90	CONDUIT	0.37	0 07:04	0.56	0.01	0.05
p91	CONDUIT	0.40	0 07:27	0.58	0.01	0.06
p92	CONDUIT	0.44	0 07:40	0.60	0.01	0.06
p93	CONDUIT	0.47	0 07:40	0.68	0.01	0.06
p94	CONDUIT	0.51	0 07:39	0.10	0.00	0.24
p96	CONDUIT	10.21	0 19:38	0.93	0.25	0.38
p97	CONDUIT	10.18	0 07:38	0.88	0.25	0.40
p98	CONDUIT	9.96	0 07:36	0.86	0.28	0.40
p99	CONDUIT	9.74	0 07:36	0.83	0.29	0.40
p100	CONDUIT	9.52	0 07:35	0.85	0.22	0.39
p101	CONDUIT	9.30	0 07:35	0.84	0.28	0.38
p119	CONDUIT	0.89	0 07:32	0.49	0.01	0.11
p120	CONDUIT	0.67	0 19:39	0.44	0.02	0.09
p121	CONDUIT	0.45	0 07:33	0.34	0.01	0.09
p122	CONDUIT	0.23	0 07:30	0.26	0.01	0.07
p123	CONDUIT	0.20	0 07:24	0.34	0.00	0.05
p124	CONDUIT	0.16	0 19:44	0.38	0.00	0.04
p125	CONDUIT	0.13	0 07:36	0.30	0.00	0.04
p126	CONDUIT	0.09	0 07:21	0.27	0.00	0.03
p127	CONDUIT	0.06	0 07:28	0.28	0.00	0.02
p128	CONDUIT	0.02	0 07:22	0.21	0.00	0.02
p129	CONDUIT	0.01	0 07:22	0.11	0.00	0.02
p130	CONDUIT	0.05	0 07:32	0.28	0.00	0.02
p131	CONDUIT	0.08	0 19:33	0.37	0.00	0.03
p132	CONDUIT	0.12	0 07:24	0.42	0.00	0.03
p133	CONDUIT	0.15	0 07:42	0.50	0.00	0.03
p134	CONDUIT	0.19	0 07:40	0.65	0.00	0.03
p135	CONDUIT	0.22	0 07:24	0.62	0.00	0.04
p136	CONDUIT	0.26	0 19:54	0.61	0.00	0.04
p137	CONDUIT	0.29	0 07:49	0.79	0.00	0.04

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p138	CONDUIT	0.33	0 07:29	0.84	0.00	0.04	p174	CONDUIT	0.72	0 07:39	0.47	0.02	0.10
p139	CONDUIT	0.36	0 07:29	0.84	0.00	0.04	p175	CONDUIT	0.75	0 19:39	0.46	0.02	0.10
p140	CONDUIT	0.40	0 07:29	0.76	0.00	0.05	p176	CONDUIT	0.79	0 19:39	0.49	0.02	0.10
p141	CONDUIT	0.43	0 07:36	0.73	0.00	0.05	p178	CONDUIT	0.82	0 07:40	0.57	0.02	0.09
p142	CONDUIT	0.47	0 07:26	0.68	0.00	0.06	p179	CONDUIT	0.86	0 07:40	0.62	0.01	0.09
p143	CONDUIT	0.50	0 07:29	0.59	0.01	0.06	p180	CONDUIT	0.89	0 07:40	0.46	0.02	0.11
p144	CONDUIT	0.54	0 07:45	0.59	0.01	0.07	p181	CONDUIT	1.74	0 07:41	0.68	0.04	0.14
p146	CONDUIT	0.64	0 19:49	0.34	0.02	0.11	p182	CONDUIT	1.78	0 07:41	0.70	0.03	0.13
p147	CONDUIT	0.68	0 07:34	0.25	0.02	0.14	p183	CONDUIT	1.81	0 07:41	0.65	0.03	0.14
p148	CONDUIT	0.71	0 07:40	0.25	0.02	0.15	p184	CONDUIT	1.85	0 07:40	0.57	0.05	0.16
p149	CONDUIT	0.75	0 07:48	0.52	0.02	0.09	p185	CONDUIT	1.88	0 07:43	0.57	0.06	0.16
p152	CONDUIT	0.82	0 07:55	0.61	0.01	0.09	p186	CONDUIT	1.92	0 19:43	1.19	0.02	0.10
p153	CONDUIT	0.85	0 07:54	0.71	0.01	0.08	p187	CONDUIT	1.95	0 07:43	0.19	0.01	0.39
p154	CONDUIT	0.89	0 07:37	0.58	0.01	0.10	p215	CONDUIT	1.40	0 07:53	0.54	0.04	0.14
p155	CONDUIT	0.92	0 19:50	0.49	0.02	0.11	p216	CONDUIT	1.44	0 07:54	0.57	0.03	0.13
p156	CONDUIT	0.96	0 07:46	0.63	0.01	0.09	p217	CONDUIT	1.48	0 07:54	0.55	0.04	0.14
p157	CONDUIT	0.99	0 07:46	0.50	0.03	0.11	p218	CONDUIT	1.51	0 07:55	0.73	0.01	0.12
p158	CONDUIT	0.49	0 07:24	0.44	0.01	0.08	p219	CONDUIT	1.55	0 19:56	0.50	0.05	0.16
p159	CONDUIT	0.53	0 07:23	0.44	0.01	0.08	p220	CONDUIT	1.58	0 19:58	0.51	0.05	0.15
p160	CONDUIT	0.56	0 07:26	0.48	0.01	0.08	p221	CONDUIT	1.62	0 07:41	0.56	0.04	0.15
p161	CONDUIT	0.60	0 07:26	0.47	0.01	0.08	p222	CONDUIT	1.65	0 19:59	0.55	0.05	0.15
p162	CONDUIT	0.63	0 07:27	0.44	0.02	0.09	p223	CONDUIT	1.87	0 07:32	0.54	0.05	0.17
p163	CONDUIT	0.67	0 19:27	0.58	0.01	0.08	p224	CONDUIT	2.57	0 20:00	0.70	0.06	0.17
p164	CONDUIT	0.70	0 07:30	0.51	0.02	0.09	p225	CONDUIT	2.79	0 20:00	0.66	0.06	0.19
p165	CONDUIT	0.40	0 07:31	0.41	0.01	0.07	p226	CONDUIT	3.01	0 20:00	0.60	0.09	0.22
p166	CONDUIT	0.44	0 07:35	0.39	0.01	0.08	p227	CONDUIT	3.23	0 20:00	0.64	0.09	0.22
p167	CONDUIT	0.47	0 07:37	0.44	0.01	0.08	p228	CONDUIT	3.45	0 20:00	0.68	0.08	0.22
p168	CONDUIT	0.51	0 07:37	0.51	0.01	0.07	p229	CONDUIT	4.15	0 20:00	0.70	0.10	0.24
p169	CONDUIT	0.54	0 07:37	0.46	0.01	0.08	p230	CONDUIT	4.37	0 20:00	0.66	0.13	0.26
p170	CONDUIT	0.58	0 07:37	0.45	0.01	0.09	p231	CONDUIT	5.07	0 20:00	0.81	0.13	0.25
p171	CONDUIT	0.61	0 07:38	0.51	0.01	0.08	p232	CONDUIT	0.01	0 07:19	0.08	0.00	0.02
p172	CONDUIT	0.65	0 07:38	0.50	0.01	0.09	p233	CONDUIT	0.05	0 07:44	0.13	0.00	0.08
p173	CONDUIT	0.68	0 07:38	0.45	0.02	0.09	p238	CONDUIT	0.09	0 19:12	0.10	0.00	0.35

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p239	CONDUIT	0.12	0 19:44	0.03	0.00	0.31	p308	CONDUIT	0.20	0 20:00	0.32	0.00	0.05
p240	CONDUIT	0.15	0 19:51	0.41	0.00	0.04	p309	CONDUIT	0.17	0 20:00	0.04	0.01	0.20
p241	CONDUIT	0.19	0 19:58	0.49	0.00	0.04	p310	CONDUIT	0.13	0 20:00	0.05	0.00	0.26
p242	CONDUIT	0.22	0 19:59	0.53	0.00	0.04	p311	CONDUIT	0.10	0 20:00	0.04	0.00	0.23
p243	CONDUIT	0.26	0 19:59	0.56	0.00	0.04	p312	CONDUIT	0.06	0 07:55	0.13	0.00	0.16
p244	CONDUIT	0.48	0 19:59	0.26	0.00	0.11	p315	CONDUIT	0.01	0 07:34	0.07	0.00	0.02
p245	CONDUIT	0.04	0 07:28	0.18	0.00	0.02	p316	CONDUIT	0.04	0 07:43	0.21	0.00	0.03
p246	CONDUIT	0.07	0 07:31	0.17	0.00	0.04	p319	CONDUIT	0.29	0 07:59	0.58	0.00	0.04
p247	CONDUIT	0.11	0 07:39	0.20	0.00	0.05	p320	CONDUIT	0.32	0 07:58	0.46	0.00	0.06
p248	CONDUIT	0.14	0 07:39	0.29	0.00	0.04	p321	CONDUIT	0.36	0 07:59	0.39	0.01	0.07
p249	CONDUIT	0.36	0 07:39	0.28	0.00	0.20	p322	CONDUIT	0.39	0 07:59	0.53	0.01	0.06
p283	CONDUIT	10.61	0 07:02	1.04	0.18	0.36	p326	CONDUIT	0.53	0 20:00	0.47	0.01	0.08
p284	CONDUIT	10.63	0 07:03	1.14	0.23	0.34	p327	CONDUIT	0.57	0 08:00	0.51	0.01	0.08
p285	CONDUIT	10.66	0 19:03	1.13	0.11	0.34	p328	CONDUIT	10.36	0 07:00	0.87	0.30	0.42
p286	CONDUIT	10.70	0 19:04	0.92	0.29	0.40	p329	CONDUIT	10.43	0 07:00	1.49	0.13	0.28
p287	CONDUIT	10.73	0 07:21	1.11	0.24	0.35	p330	CONDUIT	10.48	0 19:00	1.73	0.12	0.25
p288	CONDUIT	10.77	0 07:18	1.56	0.15	0.27	p331	CONDUIT	10.52	0 19:01	1.70	0.12	0.25
p290	CONDUIT	11.19	0 07:55	1.56	0.14	0.28	p332	CONDUIT	10.47	0 07:01	1.67	0.13	0.25
p291	CONDUIT	11.22	0 07:30	1.35	0.14	0.31	p333	CONDUIT	10.52	0 07:01	1.75	0.11	0.25
p292	CONDUIT	11.26	0 07:05	1.01	0.24	0.39	p334	CONDUIT	10.57	0 07:02	1.69	0.13	0.25
p293	CONDUIT	11.30	0 07:07	0.93	0.34	0.41	p335	CONDUIT	10.57	0 07:02	1.24	0.14	0.32
p294	CONDUIT	11.33	0 19:08	0.88	0.28	0.43	p423	CONDUIT	15.45	0 07:56	0.89	0.38	0.54
p295	CONDUIT	11.36	0 19:08	0.89	0.30	0.43	p424	CONDUIT	15.67	0 07:51	0.90	0.33	0.54
p296	CONDUIT	11.40	0 19:09	1.06	0.26	0.37	p425	CONDUIT	15.89	0 07:51	0.97	0.48	0.52
p298	CONDUIT	9.07	0 07:00	0.87	0.21	0.37	p427	CONDUIT	15.23	0 07:06	0.97	0.40	0.51
p299	CONDUIT	9.11	0 07:00	0.87	0.23	0.37	p428	CONDUIT	15.45	0 19:06	0.88	0.46	0.55
p300	CONDUIT	9.14	0 19:01	0.87	0.21	0.37	p429	CONDUIT	15.66	0 07:07	0.87	0.42	0.56
p301	CONDUIT	9.18	0 19:01	0.94	0.23	0.36	p430	CONDUIT	15.88	0 19:07	0.86	0.35	0.57
p302	CONDUIT	9.21	0 07:23	0.95	0.24	0.35	p431	CONDUIT	16.10	0 07:08	0.92	0.49	0.54
p304	CONDUIT	9.49	0 07:12	0.87	0.25	0.38	p433	CONDUIT	3.20	0 07:26	1.12	0.02	0.15
p305	CONDUIT	9.52	0 20:00	0.81	0.17	0.41	p434	CONDUIT	0.88	0 07:05	0.31	0.02	0.15
p306	CONDUIT	0.41	0 20:00	0.07	0.00	0.24	p435	CONDUIT	0.66	0 19:04	0.44	0.02	0.09
p307	CONDUIT	0.38	0 20:00	0.54	0.01	0.06	p436	CONDUIT	0.44	0 07:03	0.34	0.01	0.08



*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p437	CONDUIT	0.22	0 07:12	0.25	0.01	0.07	p591	CONDUIT	0.09	0 07:25	0.34	0.00	0.03
p438	CONDUIT	11.48	0 20:00	0.98	0.30	0.40	p592	CONDUIT	0.13	0 07:27	0.34	0.00	0.04
p439	CONDUIT	11.44	0 20:00	0.86	0.31	0.44	p595	CONDUIT	0.20	0 07:29	0.47	0.00	0.04
p442	CONDUIT	11.27	0 20:00	0.79	0.34	0.46	p597	CONDUIT	0.04	0 07:24	0.20	0.00	0.02
p443	CONDUIT	11.23	0 20:00	0.87	0.25	0.43	p600	CONDUIT	0.10	0 07:59	0.28	0.00	0.04
p444	CONDUIT	11.20	0 20:00	1.03	0.26	0.38	p652	CONDUIT	11.06	0 20:00	1.26	0.09	0.33
p445	CONDUIT	11.16	0 20:00	0.95	0.25	0.40	p654	CONDUIT	10.78	0 20:00	1.88	0.10	0.24
p446	CONDUIT	11.13	0 20:00	0.88	0.30	0.42	p655	CONDUIT	10.74	0 20:00	1.46	0.17	0.28
p447	CONDUIT	11.09	0 20:00	0.83	0.33	0.44	p656	CONDUIT	10.71	0 20:00	1.06	0.21	0.36
p473	CONDUIT	1.35	0 20:00	0.77	0.02	0.11	p657	CONDUIT	10.67	0 20:00	0.91	0.19	0.40
p474	CONDUIT	1.32	0 08:00	0.79	0.02	0.10	p658	CONDUIT	10.64	0 20:00	1.05	0.16	0.36
p475	CONDUIT	1.28	0 08:00	0.75	0.02	0.10	p659	CONDUIT	10.60	0 20:00	1.16	0.18	0.33
p476	CONDUIT	1.25	0 08:00	0.71	0.02	0.10	p660	CONDUIT	10.57	0 20:00	1.03	0.24	0.36
p477	CONDUIT	1.21	0 08:00	0.49	0.04	0.13	p661	CONDUIT	10.32	0 20:00	1.02	0.19	0.36
p478	CONDUIT	1.18	0 07:59	0.53	0.03	0.12	p662	CONDUIT	10.29	0 20:00	0.86	0.31	0.41
p479	CONDUIT	1.14	0 08:00	0.67	0.02	0.10	p663	CONDUIT	10.25	0 20:00	0.85	0.27	0.41
p480	CONDUIT	1.11	0 08:00	0.68	0.02	0.10	p664	CONDUIT	10.22	0 20:00	0.95	0.22	0.37
p481	CONDUIT	1.07	0 08:00	0.69	0.02	0.10	p665	CONDUIT	10.18	0 20:00	1.00	0.22	0.36
p482	CONDUIT	1.04	0 08:00	0.56	0.02	0.11	p667	CONDUIT	10.01	0 20:00	0.77	0.30	0.43
p483	CONDUIT	1.00	0 07:59	0.64	0.01	0.10	p668	CONDUIT	9.97	0 20:00	0.75	0.30	0.44
p484	CONDUIT	0.97	0 20:00	0.88	0.01	0.08	p669	CONDUIT	0.18	0 07:46	0.31	0.00	0.05
p485	CONDUIT	0.93	0 08:00	0.58	0.02	0.10	p670	CONDUIT	0.14	0 07:25	0.28	0.00	0.04
p486	CONDUIT	0.90	0 20:00	0.54	0.02	0.10	p671	CONDUIT	0.11	0 07:29	0.30	0.00	0.04
p487	CONDUIT	0.86	0 08:00	0.62	0.01	0.09	p672	CONDUIT	0.07	0 07:29	0.25	0.00	0.03
p488	CONDUIT	0.83	0 08:00	0.68	0.01	0.08	p680	CONDUIT	0.04	0 07:22	0.25	0.00	0.02
p489	CONDUIT	0.79	0 20:00	0.59	0.01	0.09	p681	CONDUIT	0.07	0 07:23	0.26	0.00	0.03
p490	CONDUIT	0.19	0 07:33	0.23	0.00	0.06	p682	CONDUIT	0.11	0 07:27	0.27	0.00	0.04
p491	CONDUIT	0.15	0 07:33	0.29	0.00	0.05	p683	CONDUIT	0.14	0 07:29	0.32	0.00	0.04
p492	CONDUIT	0.12	0 07:24	0.30	0.00	0.04	p684	CONDUIT	0.18	0 07:28	0.08	0.00	0.14
p493	CONDUIT	0.08	0 07:22	0.35	0.00	0.03	p714	CONDUIT	2.42	0 19:51	0.57	0.06	0.21
p587	CONDUIT	0.05	0 07:22	0.30	0.00	0.02	p715	CONDUIT	2.38	0 19:56	0.63	0.07	0.18
p588	CONDUIT	0.01	0 07:21	0.12	0.00	0.02	p716	CONDUIT	2.35	0 07:42	0.70	0.05	0.16
p589	CONDUIT	0.02	0 07:21	0.14	0.00	0.02	p717	CONDUIT	2.31	0 07:41	0.90	0.03	0.14

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p718	CONDUIT	2.28	0 07:54	0.94	0.04	0.13	p751	CONDUIT	9.51	0 07:49	0.91	0.24	0.37
p719	CONDUIT	2.24	0 19:53	0.80	0.04	0.14	p752	CONDUIT	9.73	0 07:50	0.91	0.23	0.37
p720	CONDUIT	2.21	0 07:40	0.64	0.06	0.17	p753	CONDUIT	9.95	0 07:57	0.91	0.20	0.38
p721	CONDUIT	2.17	0 07:54	0.64	0.05	0.16	p754	CONDUIT	10.17	0 07:58	0.92	0.17	0.38
p722	CONDUIT	2.14	0 19:40	0.57	0.06	0.18	p755	CONDUIT	10.39	0 07:58	0.87	0.19	0.41
p723	CONDUIT	2.10	0 07:36	0.65	0.04	0.16	p756	CONDUIT	10.61	0 07:55	0.86	0.26	0.42
p724	CONDUIT	1.84	0 07:39	0.71	0.04	0.14	p757	CONDUIT	10.83	0 07:52	0.98	0.28	0.38
p725	CONDUIT	1.68	0 07:58	0.70	0.03	0.13	p758	CONDUIT	11.05	0 07:47	1.39	0.08	0.30
p726	CONDUIT	1.64	0 19:35	0.72	0.03	0.13	p759	CONDUIT	11.27	0 07:56	1.05	0.25	0.37
p727	CONDUIT	1.42	0 07:33	0.69	0.02	0.12	p809	CONDUIT	8.86	0 07:56	0.86	0.24	0.36
p728	CONDUIT	1.20	0 19:33	0.71	0.02	0.10	p810	CONDUIT	8.64	0 07:32	0.87	0.18	0.35
p729	CONDUIT	0.98	0 07:32	0.68	0.01	0.09	p812	CONDUIT	3.52	0 07:25	0.67	0.10	0.23
p730	CONDUIT	0.76	0 07:31	0.66	0.01	0.08	p813	CONDUIT	3.30	0 07:32	0.61	0.10	0.23
p731	CONDUIT	0.54	0 07:31	0.44	0.01	0.08	p814	CONDUIT	3.08	0 07:42	0.60	0.09	0.22
p732	CONDUIT	0.32	0 07:43	0.30	0.01	0.08	p815	CONDUIT	2.86	0 07:42	0.58	0.09	0.21
p733	CONDUIT	0.10	0 07:10	0.16	0.00	0.05	p816	CONDUIT	2.64	0 07:59	0.57	0.07	0.21
p734	CONDUIT	0.12	0 07:10	0.09	0.00	0.15	p817	CONDUIT	2.42	0 07:59	0.60	0.06	0.19
p735	CONDUIT	0.34	0 07:22	0.09	0.01	0.18	p818	CONDUIT	2.20	0 07:59	0.61	0.05	0.17
p736	CONDUIT	0.56	0 07:32	0.41	0.01	0.09	p819	CONDUIT	1.98	0 07:39	0.61	0.04	0.16
p737	CONDUIT	0.78	0 07:43	0.63	0.01	0.08	p820	CONDUIT	1.76	0 07:39	0.66	0.03	0.14
p738	CONDUIT	1.00	0 07:49	0.52	0.02	0.11	p821	CONDUIT	1.54	0 19:39	0.61	0.04	0.13
p739	CONDUIT	1.22	0 07:49	0.57	0.03	0.12	p822	CONDUIT	1.32	0 19:39	0.51	0.04	0.14
p740	CONDUIT	1.44	0 07:52	0.79	0.02	0.11	p823	CONDUIT	1.10	0 19:40	0.47	0.03	0.13
p741	CONDUIT	1.66	0 07:26	0.97	0.02	0.10	p824	CONDUIT	0.88	0 07:27	0.47	0.02	0.11
p742	CONDUIT	1.88	0 19:55	0.92	0.03	0.12	p825	CONDUIT	0.66	0 07:17	0.41	0.02	0.10
p743	CONDUIT	2.10	0 07:27	0.42	0.03	0.22	p826	CONDUIT	0.44	0 07:17	0.31	0.01	0.09
p744	CONDUIT	7.97	0 07:50	0.44	0.24	0.56	p827	CONDUIT	0.22	0 07:12	0.25	0.01	0.07
p745	CONDUIT	8.19	0 19:52	0.87	0.19	0.34	p833	CONDUIT	1.60	0 08:00	0.53	0.05	0.15
p746	CONDUIT	8.41	0 07:47	1.98	0.06	0.19	p834	CONDUIT	1.57	0 08:00	0.55	0.04	0.15
p747	CONDUIT	8.63	0 07:53	1.36	0.10	0.26	p836	CONDUIT	1.46	0 08:00	0.32	0.04	0.21
p748	CONDUIT	8.85	0 07:53	0.92	0.17	0.34	p837	CONDUIT	1.43	0 07:28	0.33	0.04	0.20
p749	CONDUIT	9.07	0 07:51	0.84	0.27	0.38	p838	CONDUIT	1.39	0 07:28	0.59	0.03	0.13
p750	CONDUIT	9.29	0 07:48	0.92	0.21	0.36	p841	CONDUIT	1.18	0 07:25	1.04	0.01	0.08

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p842	CONDUIT	1.15	0 07:25	0.97	0.01	0.08	p884	CONDUIT	0.02	0 07:24	0.15	0.00	0.02
p843	CONDUIT	1.11	0 07:24	0.93	0.01	0.08	p887	CONDUIT	0.22	0 19:37	0.30	0.01	0.06
p844	CONDUIT	1.08	0 07:24	0.91	0.01	0.08	p888	CONDUIT	0.26	0 19:40	0.36	0.01	0.06
p845	CONDUIT	1.04	0 07:23	0.91	0.01	0.08	p889	CONDUIT	0.29	0 19:39	0.36	0.01	0.06
p846	CONDUIT	1.01	0 07:23	0.91	0.01	0.08	p890	CONDUIT	0.33	0 07:37	0.48	0.00	0.05
p847	CONDUIT	0.97	0 19:23	0.83	0.01	0.08	p891	CONDUIT	0.36	0 19:59	0.45	0.01	0.06
p848	CONDUIT	0.94	0 07:22	0.86	0.01	0.08	p892	CONDUIT	0.40	0 07:32	0.49	0.01	0.06
p849	CONDUIT	0.90	0 07:22	0.74	0.01	0.08	p893	CONDUIT	0.43	0 07:39	0.42	0.01	0.07
p852	CONDUIT	7.61	0 20:00	0.83	0.20	0.34	p894	CONDUIT	0.47	0 07:59	0.46	0.01	0.07
p853	CONDUIT	7.83	0 20:00	0.76	0.24	0.37	p895	CONDUIT	0.50	0 07:46	0.52	0.01	0.07
p854	CONDUIT	8.05	0 20:00	0.81	0.23	0.35	p896	CONDUIT	0.54	0 07:39	0.70	0.01	0.06
p855	CONDUIT	8.27	0 20:00	0.77	0.21	0.40	p897	CONDUIT	0.57	0 07:35	0.58	0.01	0.07
p856	CONDUIT	12.84	0 20:00	0.86	0.30	0.48	p898	CONDUIT	0.61	0 07:50	0.48	0.01	0.08
p857	CONDUIT	13.06	0 20:00	0.92	0.32	0.46	p899	CONDUIT	0.64	0 07:40	0.48	0.02	0.09
p861	CONDUIT	10.22	0 07:00	0.90	0.28	0.40	p900	CONDUIT	0.68	0 07:40	0.49	0.01	0.09
p862	CONDUIT	10.44	0 07:01	0.87	0.27	0.41	p901	CONDUIT	0.71	0 07:58	0.45	0.02	0.10
p863	CONDUIT	10.66	0 19:02	0.89	0.32	0.41	p902	CONDUIT	0.75	0 07:42	0.44	0.02	0.10
p868	CONDUIT	0.17	0 07:33	0.29	0.00	0.05	p903	CONDUIT	0.78	0 07:49	0.45	0.02	0.10
p869	CONDUIT	0.39	0 07:26	0.52	0.01	0.06	p925	CONDUIT	1.37	0 19:58	0.63	0.02	0.12
p870	CONDUIT	0.43	0 07:33	0.46	0.01	0.07	p926	CONDUIT	1.33	0 07:57	0.65	0.03	0.12
p871	CONDUIT	0.46	0 19:51	0.46	0.01	0.07	p927	CONDUIT	1.30	0 07:59	0.50	0.04	0.14
p872	CONDUIT	0.50	0 19:55	0.56	0.01	0.07	p928	CONDUIT	1.27	0 07:59	0.48	0.04	0.14
p873	CONDUIT	0.53	0 19:55	0.52	0.01	0.07	p929	CONDUIT	1.23	0 07:53	0.48	0.04	0.14
p874	CONDUIT	0.57	0 19:55	0.50	0.01	0.08	p930	CONDUIT	0.10	0 07:51	0.09	0.00	0.09
p875	CONDUIT	0.60	0 07:33	0.65	0.01	0.07	p931	CONDUIT	0.07	0 07:48	0.19	0.00	0.04
p876	CONDUIT	0.26	0 07:21	0.35	0.00	0.06	p932	CONDUIT	0.04	0 07:27	0.15	0.00	0.03
p877	CONDUIT	0.23	0 07:21	0.23	0.01	0.07	p939	CONDUIT	2.31	0 20:00	0.47	0.06	0.21
p878	CONDUIT	0.19	0 19:07	0.19	0.01	0.07	p942	CONDUIT	2.38	0 20:00	0.62	0.06	0.18
p879	CONDUIT	0.16	0 07:24	0.27	0.00	0.05	p943	CONDUIT	2.42	0 20:00	0.62	0.07	0.18
p880	CONDUIT	0.12	0 07:24	0.33	0.00	0.04	p944	CONDUIT	1.23	0 20:00	0.60	0.02	0.12
p881	CONDUIT	0.09	0 07:24	0.31	0.00	0.03	p945	CONDUIT	1.26	0 20:00	0.45	0.03	0.14
p882	CONDUIT	0.05	0 07:22	0.25	0.00	0.03	p948	CONDUIT	0.40	0 19:53	0.34	0.01	0.08
p883	CONDUIT	0.02	0 07:24	0.15	0.00	0.02	p949	CONDUIT	0.36	0 07:55	0.37	0.01	0.07

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p950	CONDUIT	0.33	0 19:55	0.36	0.01	0.07	p991	CONDUIT	2.98	0 19:28	0.70	0.07	0.19
p951	CONDUIT	0.29	0 07:53	0.36	0.01	0.06	p992	CONDUIT	2.76	0 07:28	0.61	0.08	0.20
p952	CONDUIT	0.26	0 07:51	0.27	0.01	0.07	p1001	CONDUIT	0.04	0 07:18	0.34	0.00	0.02
p953	CONDUIT	0.22	0 07:43	0.25	0.01	0.07	p1006	CONDUIT	0.46	0 07:19	0.55	0.01	0.06
p954	CONDUIT	0.19	0 07:43	0.32	0.00	0.05	p1007	CONDUIT	0.49	0 07:20	0.80	0.01	0.05
p955	CONDUIT	0.15	0 07:43	0.28	0.00	0.05	p1008	CONDUIT	0.53	0 07:20	0.87	0.00	0.05
p956	CONDUIT	0.12	0 07:29	0.25	0.00	0.04	p1009	CONDUIT	0.56	0 07:21	0.92	0.00	0.05
p957	CONDUIT	0.08	0 07:26	0.23	0.00	0.04	p1010	CONDUIT	0.78	0 07:21	0.38	0.00	0.12
p958	CONDUIT	0.05	0 07:25	0.18	0.00	0.03	p1011	CONDUIT	0.21	0 07:39	0.06	0.00	0.20
p959	CONDUIT	0.01	0 07:21	0.09	0.00	0.02	p1013	CONDUIT	0.61	0 07:59	0.64	0.01	0.07
p962	CONDUIT	0.05	0 07:24	0.25	0.00	0.02	p1014	CONDUIT	0.65	0 08:00	0.57	0.01	0.08
p963	CONDUIT	0.12	0 07:27	0.46	0.00	0.03	p1015	CONDUIT	0.68	0 08:00	0.49	0.01	0.09
p964	CONDUIT	0.15	0 07:32	0.44	0.00	0.03	p1016	CONDUIT	0.72	0 20:00	0.43	0.02	0.10
p965	CONDUIT	0.19	0 07:31	0.36	0.00	0.05	p1017	CONDUIT	0.75	0 20:00	0.79	0.01	0.07
p966	CONDUIT	0.22	0 07:31	0.30	0.00	0.06	p1018	CONDUIT	0.00	0 00:00	0.00	0.00	0.07
p967	CONDUIT	0.26	0 07:34	0.28	0.01	0.07	p1022	CONDUIT	0.96	0 07:09	0.85	0.01	0.08
p968	CONDUIT	0.29	0 07:27	0.22	0.01	0.09	p1023	CONDUIT	0.46	0 07:10	0.40	0.01	0.08
p969	CONDUIT	0.33	0 19:48	0.23	0.01	0.09	p1024	CONDUIT	0.68	0 07:09	0.64	0.01	0.08
p970	CONDUIT	0.36	0 19:41	0.33	0.01	0.08	p1025	CONDUIT	0.90	0 07:27	0.69	0.01	0.09
p971	CONDUIT	0.07	0 07:33	0.19	0.00	0.04	p1026	CONDUIT	1.12	0 07:23	0.84	0.01	0.09
p972	CONDUIT	0.04	0 07:29	0.17	0.00	0.02	p1027	CONDUIT	1.34	0 07:24	0.55	0.03	0.13
p977	CONDUIT	7.19	0 07:51	0.83	0.16	0.32	p1028	CONDUIT	1.56	0 07:51	0.51	0.04	0.15
p978	CONDUIT	6.97	0 07:51	0.93	0.16	0.29	p1029	CONDUIT	1.78	0 07:24	0.47	0.05	0.18
p979	CONDUIT	6.75	0 07:51	0.84	0.18	0.30	p1030	CONDUIT	0.76	0 07:11	0.36	0.01	0.13
p981	CONDUIT	6.28	0 07:29	1.52	0.03	0.19	p1174	CONDUIT	3.42	0 19:54	1.15	0.05	0.15
p982	CONDUIT	6.06	0 07:36	0.42	0.17	0.47	p1176	CONDUIT	1.47	0 07:37	0.72	0.02	0.12
p983	CONDUIT	5.84	0 07:28	0.49	0.05	0.41	p1177	CONDUIT	1.25	0 07:44	0.45	0.04	0.14
p984	CONDUIT	5.62	0 07:44	1.34	0.07	0.19	p1178	CONDUIT	1.03	0 07:22	0.43	0.02	0.13
p985	CONDUIT	5.40	0 07:29	0.86	0.12	0.25	p1179	CONDUIT	0.44	0 07:23	0.32	0.01	0.09
p986	CONDUIT	5.18	0 19:43	0.80	0.09	0.26	p1180	CONDUIT	0.22	0 07:21	0.28	0.01	0.06
p987	CONDUIT	4.96	0 19:31	0.79	0.12	0.25	p1233	CONDUIT	1.42	0 07:16	0.96	0.01	0.19
p988	CONDUIT	4.74	0 19:31	0.73	0.11	0.26	p1234	CONDUIT	1.20	0 07:19	1.11	0.01	0.08
p989	CONDUIT	4.52	0 07:33	0.77	0.08	0.24	p1237	CONDUIT	0.10	0 07:09	0.30	0.00	0.04

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p1239	CONDUIT	0.37	0 07:18	0.31	0.01	0.08	p2889	CONDUIT	0.71	0 07:50	1.15	0.00	0.05
p1615	CONDUIT	0.33	0 07:28	0.46	0.00	0.06	p2890	CONDUIT	0.68	0 07:51	0.87	0.01	0.06
p1616	CONDUIT	0.11	0 07:29	0.35	0.00	0.03	p2891	CONDUIT	0.64	0 07:42	0.90	0.01	0.06
p1617	CONDUIT	0.07	0 07:32	0.30	0.00	0.03	p2892	CONDUIT	0.61	0 07:49	0.87	0.01	0.06
p1618	CONDUIT	0.04	0 07:27	0.18	0.00	0.02	p2893	CONDUIT	0.57	0 07:53	0.75	0.01	0.06
p1699	CONDUIT	0.07	0 07:46	0.05	0.00	0.10	p2894	CONDUIT	0.54	0 07:54	0.70	0.01	0.06
p1700	CONDUIT	0.04	0 07:33	0.15	0.00	0.03	p2895	CONDUIT	0.50	0 07:50	0.56	0.01	0.07
p1806	CONDUIT	0.24	0 19:00	0.47	0.00	0.59	p2896	CONDUIT	0.47	0 07:39	0.66	0.00	0.06
p1978	CONDUIT	13.87	0 07:55	1.19	0.25	0.40	p2897	CONDUIT	15.31	0 07:23	1.09	0.18	0.48
p1979	CONDUIT	13.90	0 19:57	0.98	0.26	0.46	p2898	CONDUIT	15.09	0 19:25	1.54	0.24	0.35
p1982	CONDUIT	14.08	0 07:51	0.96	0.40	0.47	p2899	CONDUIT	15.05	0 19:24	1.21	0.30	0.42
p1986	CONDUIT	2.57	0 07:26	1.18	0.01	0.27	p2900	CONDUIT	15.02	0 19:24	1.33	0.21	0.39
p1987	CONDUIT	2.53	0 19:28	1.46	0.02	0.10	p2901	CONDUIT	14.98	0 19:24	1.82	0.17	0.31
p1988	CONDUIT	2.50	0 07:27	0.71	0.06	0.17	p2902	CONDUIT	14.95	0 19:24	1.31	0.26	0.39
p1989	CONDUIT	16.96	0 07:52	1.05	0.31	0.51	p2903	CONDUIT	14.91	0 19:24	1.09	0.30	0.45
p2046	CONDUIT	12.63	0 19:59	1.48	0.18	0.32	p2904	CONDUIT	14.88	0 19:23	1.09	0.32	0.45
p2047	CONDUIT	12.85	0 07:47	1.12	0.21	0.39	p2905	CONDUIT	14.74	0 19:23	1.12	0.29	0.44
p2543	CONDUIT	0.28	0 07:13	0.32	0.01	0.07	p2906	CONDUIT	13.90	0 19:23	1.03	0.33	0.45
p2544	CONDUIT	0.25	0 07:31	0.37	0.00	0.05	p2907	CONDUIT	13.86	0 19:23	0.98	0.35	0.46
p2548	CONDUIT	0.18	0 07:26	0.54	0.00	0.03	p2908	CONDUIT	13.83	0 19:23	0.98	0.34	0.46
p2549	CONDUIT	0.14	0 07:41	0.41	0.00	0.03	p2909	CONDUIT	13.79	0 19:22	1.08	0.23	0.43
p2550	CONDUIT	0.11	0 07:24	0.42	0.00	0.03	p2910	CONDUIT	13.76	0 19:22	1.05	0.27	0.43
p2554	CONDUIT	0.04	0 07:23	0.32	0.00	0.02	p2911	CONDUIT	12.78	0 07:31	3.28	0.06	0.32
p2876	CONDUIT	0.04	0 07:31	0.14	0.00	0.03	p2912	CONDUIT	12.74	0 07:32	0.98	0.34	0.43
p2877	CONDUIT	0.07	0 07:46	0.19	0.00	0.04	p2913	CONDUIT	12.71	0 19:51	1.04	0.24	0.41
p2878	CONDUIT	0.11	0 07:47	0.22	0.00	0.04	p2914	CONDUIT	12.67	0 19:51	1.25	0.23	0.36
p2879	CONDUIT	0.14	0 08:00	0.26	0.00	0.05	p2915	CONDUIT	12.64	0 19:51	1.26	0.22	0.36
p2880	CONDUIT	0.00	0 00:00	0.00	0.00	0.02	p2916	CONDUIT	12.60	0 19:52	1.45	0.16	0.32
p2884	CONDUIT	1.07	0 07:48	0.72	0.02	0.09	p2917	CONDUIT	12.57	0 19:52	1.88	0.13	0.27
p2885	CONDUIT	0.85	0 07:51	0.45	0.03	0.11	p2918	CONDUIT	12.53	0 19:51	2.03	0.12	0.25
p2886	CONDUIT	0.82	0 07:43	0.55	0.01	0.09	p2919	CONDUIT	12.50	0 19:33	1.93	0.13	0.26
p2887	CONDUIT	0.78	0 07:42	0.90	0.01	0.06	p2920	CONDUIT	12.46	0 07:32	1.67	0.14	0.29
p2888	CONDUIT	0.75	0 07:42	1.13	0.01	0.05	p2921	CONDUIT	12.43	0 19:39	1.63	0.14	0.29

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p2922	CONDUIT	12.39	0 07:40	1.66	0.16	0.29	p2972	CONDUIT	2.73	0 20:00	0.78	0.06	0.17
p2923	CONDUIT	12.36	0 07:35	1.18	0.26	0.37	p2973	CONDUIT	2.69	0 20:00	0.82	0.04	0.16
p2924	CONDUIT	12.32	0 19:30	1.11	0.27	0.38	p2974	CONDUIT	2.66	0 20:00	0.91	0.04	0.15
p2925	CONDUIT	12.29	0 07:35	1.21	0.23	0.36	p2975	CONDUIT	2.62	0 20:00	1.02	0.03	0.14
p2926	CONDUIT	12.25	0 07:35	1.11	0.23	0.38	p2976	CONDUIT	2.59	0 20:00	0.80	0.05	0.16
p2927	CONDUIT	12.22	0 19:47	1.15	0.20	0.37	p2977	CONDUIT	0.43	0 19:12	0.26	0.01	0.11
p2928	CONDUIT	12.18	0 19:47	1.48	0.18	0.31	p2978	CONDUIT	0.40	0 19:12	0.40	0.01	0.07
p2929	CONDUIT	12.15	0 19:59	1.48	0.18	0.31	p2979	CONDUIT	0.36	0 19:11	0.49	0.00	0.06
p2930	CONDUIT	11.93	0 07:30	1.00	0.28	0.41	p2982	CONDUIT	0.29	0 19:11	0.83	0.00	0.04
p2931	CONDUIT	11.71	0 19:26	0.89	0.21	0.44	p2983	CONDUIT	0.26	0 19:10	0.78	0.00	0.03
p2932	CONDUIT	0.11	0 07:25	0.03	0.00	0.23	p2984	CONDUIT	0.22	0 19:10	0.71	0.00	0.03
p2933	CONDUIT	0.07	0 07:26	0.58	0.00	0.02	p2987	CONDUIT	0.11	0 19:10	0.35	0.00	0.03
p2934	CONDUIT	0.04	0 07:26	0.32	0.00	0.02	p2988	CONDUIT	0.14	0 19:10	0.33	0.00	0.04
p2947	CONDUIT	0.81	0 07:37	0.67	0.01	0.25	p2989	CONDUIT	0.18	0 19:11	0.33	0.00	0.05
p2948	CONDUIT	0.77	0 07:38	0.75	0.01	0.07	p2990	CONDUIT	0.21	0 19:12	0.37	0.00	0.05
p2949	CONDUIT	0.74	0 07:37	0.56	0.02	0.09	p2991	CONDUIT	0.25	0 19:12	0.69	0.00	0.04
p2950	CONDUIT	0.04	0 07:32	0.05	0.00	0.05	p2992	CONDUIT	0.28	0 19:13	0.81	0.00	0.04
p2951	CONDUIT	3.90	0 20:00	1.04	0.05	0.18	p2993	CONDUIT	0.32	0 19:13	0.85	0.00	0.04
p2952	CONDUIT	3.68	0 20:00	1.14	0.05	0.16	p2994	CONDUIT	0.35	0 19:13	0.88	0.00	0.04
p2953	CONDUIT	3.65	0 20:00	1.33	0.03	0.14	p2995	CONDUIT	0.39	0 19:13	0.80	0.00	0.04
p2954	CONDUIT	3.61	0 20:00	1.52	0.03	0.13	p2996	CONDUIT	0.42	0 19:14	0.73	0.00	0.05
p2955	CONDUIT	3.58	0 20:00	1.54	0.03	0.13	p2997	CONDUIT	0.46	0 19:14	0.26	0.01	0.10
p2956	CONDUIT	3.54	0 20:00	1.64	0.02	0.12	p2999	CONDUIT	0.53	0 19:15	0.57	0.01	0.07
p2957	CONDUIT	3.51	0 20:00	1.60	0.03	0.12	p3000	CONDUIT	0.56	0 19:16	0.48	0.01	0.08
p2958	CONDUIT	3.47	0 20:00	1.75	0.02	0.11	p3001	CONDUIT	0.60	0 19:17	0.46	0.01	0.09
p2959	CONDUIT	3.44	0 20:00	2.00	0.02	0.10	p3002	CONDUIT	0.63	0 19:17	0.55	0.01	0.08
p2960	CONDUIT	3.40	0 20:00	1.57	0.03	0.12	p3003	CONDUIT	0.67	0 19:17	0.55	0.01	0.08
p2961	CONDUIT	3.37	0 20:00	0.73	0.09	0.20	p3004	CONDUIT	0.70	0 19:18	0.56	0.01	0.08
p2962	CONDUIT	3.33	0 20:00	0.69	0.09	0.21	p3005	CONDUIT	0.74	0 19:18	0.59	0.01	0.08
p2963	CONDUIT	3.30	0 20:00	0.77	0.06	0.19	p3006	CONDUIT	0.77	0 19:18	0.56	0.01	0.09
p2964	CONDUIT	3.26	0 20:00	0.88	0.06	0.17	p3007	CONDUIT	0.81	0 19:18	0.47	0.02	0.10
p2965	CONDUIT	2.90	0 20:00	1.00	0.03	0.15	p3008	CONDUIT	0.84	0 19:19	0.42	0.03	0.11
p2971	CONDUIT	2.76	0 20:00	0.91	0.05	0.15	p3009	CONDUIT	0.88	0 19:19	0.44	0.03	0.12

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p3010	CONDUIT	0.91	0 19:22	0.46	0.03	0.11	p3082	CONDUIT	0.22	0 19:12	0.57	0.00	0.04
p3034	CONDUIT	0.03	0 08:00	0.20	0.00	0.02	p3083	CONDUIT	0.18	0 19:09	0.52	0.00	0.04
p3042	CONDUIT	0.29	0 07:49	0.34	0.01	0.06	p3084	CONDUIT	0.15	0 19:09	0.49	0.00	0.03
p3043	CONDUIT	0.26	0 07:36	0.35	0.01	0.06	p3085	CONDUIT	0.11	0 19:08	0.46	0.00	0.03
p3044	CONDUIT	0.22	0 07:34	0.39	0.00	0.05	p3086	CONDUIT	0.08	0 19:08	0.40	0.00	0.02
p3045	CONDUIT	0.19	0 07:34	0.32	0.00	0.05	p3105	CONDUIT	0.04	0 07:24	0.27	0.00	0.02
p3046	CONDUIT	0.15	0 07:25	0.29	0.00	0.05	p3106	CONDUIT	0.01	0 07:15	0.00	0.00	0.01
p3047	CONDUIT	0.12	0 07:25	0.26	0.00	0.04	p3107	CONDUIT	0.03	0 07:15	0.09	0.00	0.06
p3048	CONDUIT	0.08	0 07:24	0.22	0.00	0.04	p3108	CONDUIT	1.33	0 20:00	0.62	0.03	0.12
p3049	CONDUIT	0.05	0 07:22	0.21	0.00	0.03	p3109	CONDUIT	1.29	0 20:00	0.65	0.02	0.11
p3050	CONDUIT	0.01	0 07:21	0.11	0.00	0.02	p3110	CONDUIT	1.26	0 20:00	0.63	0.03	0.11
p3057	CONDUIT	2.12	0 20:00	0.58	0.05	0.17	p3111	CONDUIT	1.22	0 20:00	0.60	0.03	0.12
p3058	CONDUIT	2.08	0 20:00	0.83	0.01	0.13	p3112	CONDUIT	1.39	0 20:00	0.67	0.03	0.12
p3059	CONDUIT	2.05	0 20:00	1.56	0.01	0.09	p3113	CONDUIT	1.42	0 20:00	0.61	0.03	0.13
p3060	CONDUIT	2.01	0 20:00	1.41	0.02	0.09	p3114	CONDUIT	1.46	0 20:00	0.56	0.04	0.14
p3061	CONDUIT	1.98	0 20:00	1.44	0.01	0.09	p3115	CONDUIT	1.49	0 20:00	0.63	0.03	0.13
p3062	CONDUIT	1.94	0 20:00	0.58	0.06	0.16	p3116	CONDUIT	1.53	0 20:00	0.60	0.03	0.14
p3063	CONDUIT	1.91	0 20:00	0.57	0.05	0.16	p3117	CONDUIT	1.56	0 20:00	0.52	0.05	0.15
p3064	CONDUIT	1.87	0 20:00	0.58	0.05	0.16	p3118	CONDUIT	1.60	0 20:00	0.79	0.01	0.12
p3065	CONDUIT	1.84	0 20:00	0.51	0.06	0.17	p3127	CONDUIT	0.18	0 07:25	0.36	0.00	0.04
p3066	CONDUIT	1.80	0 20:00	0.53	0.05	0.17	p3128	CONDUIT	0.22	0 07:26	0.29	0.01	0.06
p3067	CONDUIT	1.77	0 20:00	0.52	0.05	0.16	p3129	CONDUIT	0.25	0 07:42	0.30	0.01	0.06
p3068	CONDUIT	0.26	0 19:10	0.75	0.00	0.04	p3130	CONDUIT	0.29	0 07:34	0.28	0.01	0.07
p3069	CONDUIT	0.22	0 19:09	0.69	0.00	0.03	p3132	CONDUIT	0.11	0 07:25	0.43	0.00	0.03
p3070	CONDUIT	0.19	0 19:09	0.59	0.00	0.03	p3133	CONDUIT	0.08	0 07:22	0.38	0.00	0.02
p3071	CONDUIT	0.15	0 19:08	0.50	0.00	0.03	p3134	CONDUIT	0.17	0 08:00	0.01	0.00	0.22
p3072	CONDUIT	0.12	0 19:08	0.43	0.00	0.03	p3135	CONDUIT	0.14	0 08:00	0.28	0.00	0.04
p3074	CONDUIT	0.06	0 19:05	0.22	0.00	0.03	p3136	CONDUIT	0.10	0 07:49	0.24	0.00	0.04
p3076	CONDUIT	0.02	0 19:04	0.13	0.00	0.02	p3137	CONDUIT	0.07	0 07:48	0.20	0.00	0.04
p3078	CONDUIT	2.24	0 20:00	0.65	0.06	0.17	p3138	CONDUIT	0.03	0 07:39	0.14	0.00	0.03
p3079	CONDUIT	0.61	0 19:17	0.28	0.01	0.13	p3150	CONDUIT	0.81	0 07:44	0.54	0.01	0.09
p3080	CONDUIT	0.57	0 19:16	0.43	0.02	0.09	p3151	CONDUIT	0.78	0 07:46	0.44	0.02	0.11
p3081	CONDUIT	0.25	0 19:13	0.35	0.00	0.06	p3152	CONDUIT	0.74	0 07:41	0.47	0.02	0.10

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p3153	CONDUIT	0.71	0 07:41	0.57	0.01	0.08	p3562	CONDUIT	7.93	0 08:00	0.88	0.17	0.33
p3154	CONDUIT	0.07	0 07:31	0.17	0.00	0.05	p3563	CONDUIT	7.96	0 08:00	0.91	0.20	0.32
p3155	CONDUIT	0.04	0 07:31	0.20	0.00	0.02	p3564	CONDUIT	8.00	0 20:00	0.92	0.18	0.32
p3158	CONDUIT	0.60	0 07:40	0.47	0.01	0.09	p3565	CONDUIT	8.03	0 08:00	0.88	0.18	0.33
p3159	CONDUIT	0.57	0 07:39	0.48	0.01	0.08	p3566	CONDUIT	8.07	0 08:00	0.82	0.18	0.35
p3160	CONDUIT	0.53	0 07:50	0.51	0.01	0.07	p3567	CONDUIT	8.10	0 20:00	0.80	0.23	0.36
p3278	CONDUIT	0.03	0 07:25	0.22	0.00	0.02	p3568	CONDUIT	8.14	0 20:00	0.79	0.21	0.36
p3279	CONDUIT	0.07	0 07:26	0.29	0.00	0.03	p3569	CONDUIT	8.17	0 08:00	0.84	0.24	0.35
p3280	CONDUIT	0.11	0 07:26	0.37	0.00	0.03	p3570	CONDUIT	8.21	0 08:00	0.99	0.16	0.31
p3281	CONDUIT	0.14	0 07:26	0.41	0.00	0.03	p3571	CONDUIT	8.24	0 08:00	1.04	0.17	0.30
p3282	CONDUIT	0.18	0 07:27	0.44	0.00	0.04	p3572	CONDUIT	0.72	0 20:00	0.27	0.01	0.15
p3283	CONDUIT	0.21	0 19:31	0.54	0.00	0.04	p3573	CONDUIT	0.68	0 20:00	0.26	0.02	0.14
p3284	CONDUIT	0.25	0 19:31	0.62	0.00	0.04	p3574	CONDUIT	0.65	0 20:00	0.06	0.02	0.39
p3285	CONDUIT	0.28	0 07:32	0.54	0.00	0.05	p3575	CONDUIT	0.61	0 20:00	0.08	0.02	0.41
p3286	CONDUIT	0.32	0 07:32	0.07	0.01	0.23	p3576	CONDUIT	0.58	0 20:00	0.26	0.02	0.16
p3363	CONDUIT	0.14	0 07:31	0.26	0.00	0.05	p3577	CONDUIT	0.54	0 20:00	0.20	0.02	0.14
p3364	CONDUIT	0.11	0 07:35	0.27	0.00	0.04	p3578	CONDUIT	0.51	0 07:31	0.20	0.02	0.14
p3365	CONDUIT	0.07	0 07:35	0.23	0.00	0.03	p3579	CONDUIT	0.47	0 19:30	0.40	0.01	0.08
p3366	CONDUIT	0.04	0 07:30	0.17	0.00	0.02	p3580	CONDUIT	0.44	0 19:29	0.35	0.01	0.08
p3394	CONDUIT	0.21	0 08:00	0.05	0.00	0.21	p3634	CONDUIT	0.22	0 07:15	0.25	0.00	0.07
p3395	CONDUIT	0.17	0 08:00	0.28	0.01	0.05	p3849	CONDUIT	0.56	0 19:29	0.51	0.01	0.08
p3396	CONDUIT	0.14	0 07:56	0.24	0.00	0.05	p3850	CONDUIT	0.34	0 07:28	0.41	0.00	0.06
p3397	CONDUIT	0.10	0 07:43	0.24	0.00	0.04	p3851	CONDUIT	0.12	0 07:25	0.32	0.00	0.04
p3398	CONDUIT	0.07	0 07:42	0.22	0.00	0.03	p3852	CONDUIT	0.10	0 07:25	0.44	0.00	0.03
p3399	CONDUIT	0.04	0 07:31	0.16	0.00	0.03	p3853	CONDUIT	0.13	0 07:23	0.13	0.00	0.08
p3407	CONDUIT	0.04	0 07:31	0.15	0.00	0.03	p4772	CONDUIT	1.41	0 07:54	0.14	0.01	0.43
p3408	CONDUIT	0.07	0 07:33	0.13	0.00	0.05	p4773	CONDUIT	1.30	0 07:57	1.01	0.01	0.09
p3409	CONDUIT	0.33	0 07:31	0.38	0.01	0.07	p4774	CONDUIT	1.19	0 07:55	0.94	0.01	0.08
p3410	CONDUIT	0.37	0 07:38	0.34	0.01	0.08	p4775	CONDUIT	1.08	0 07:46	0.95	0.01	0.08
p3411	CONDUIT	0.40	0 19:24	0.31	0.01	0.09	p4776	CONDUIT	0.97	0 07:48	0.81	0.01	0.08
p3559	CONDUIT	7.82	0 08:00	0.89	0.20	0.32	p4777	CONDUIT	0.86	0 07:46	0.79	0.01	0.08
p3560	CONDUIT	7.86	0 08:00	0.87	0.21	0.33	p4778	CONDUIT	0.75	0 19:59	0.83	0.01	0.07
p3561	CONDUIT	7.89	0 08:00	0.84	0.21	0.34	p4779	CONDUIT	0.64	0 07:45	0.83	0.01	0.06



*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p4780	CONDUIT	0.53	0 07:50	0.76	0.01	0.06	p4815	CONDUIT	5.22	0 07:46	0.76	0.15	0.27
p4781	CONDUIT	0.42	0 07:45	0.68	0.00	0.05	p4816	CONDUIT	5.33	0 19:49	0.74	0.13	0.28
p4782	CONDUIT	0.31	0 07:44	0.62	0.00	0.05	p4817	CONDUIT	5.44	0 07:46	0.73	0.16	0.29
p4783	CONDUIT	0.20	0 07:43	0.38	0.00	0.05	p4818	CONDUIT	5.55	0 19:47	0.79	0.14	0.28
p4784	CONDUIT	0.09	0 07:40	0.20	0.00	0.04	p4819	CONDUIT	5.66	0 07:46	0.78	0.16	0.28
p4785	CONDUIT	1.82	0 07:40	1.16	0.02	0.10	p4820	CONDUIT	5.77	0 07:46	0.88	0.12	0.26
p4786	CONDUIT	1.71	0 19:45	0.65	0.04	0.14	p4821	CONDUIT	5.88	0 07:55	0.84	0.14	0.27
p4787	CONDUIT	1.60	0 19:45	0.59	0.04	0.14	p4822	CONDUIT	5.99	0 19:53	0.81	0.14	0.29
p4788	CONDUIT	1.49	0 19:52	0.57	0.04	0.14	p4823	CONDUIT	6.10	0 19:53	0.82	0.17	0.29
p4789	CONDUIT	0.49	0 07:34	0.31	0.01	0.10	p4826	CONDUIT	6.32	0 07:50	0.96	0.12	0.26
p4790	CONDUIT	0.38	0 19:33	0.46	0.01	0.06	p4827	CONDUIT	6.43	0 07:55	0.98	0.13	0.26
p4791	CONDUIT	0.27	0 07:33	0.37	0.01	0.06	p4828	CONDUIT	6.54	0 07:55	0.84	0.12	0.30
p4792	CONDUIT	0.16	0 07:32	0.28	0.00	0.05	p4829	CONDUIT	6.65	0 07:55	0.77	0.18	0.32
p4793	CONDUIT	0.05	0 07:25	0.15	0.00	0.03	p4830	CONDUIT	6.76	0 07:53	0.87	0.17	0.30
p4794	CONDUIT	0.06	0 07:25	0.16	0.00	0.04	p4831	CONDUIT	6.87	0 07:56	0.96	0.14	0.28
p4795	CONDUIT	0.38	0 07:29	0.51	0.01	0.06	p4861	CONDUIT	4.64	0 07:54	0.41	0.02	0.46
p4796	CONDUIT	0.49	0 07:30	0.56	0.01	0.07	p4862	CONDUIT	4.53	0 07:57	0.97	0.08	0.21
p4797	CONDUIT	0.60	0 07:48	0.61	0.01	0.07	p4863	CONDUIT	4.42	0 07:54	1.03	0.06	0.19
p4798	CONDUIT	0.71	0 07:25	0.54	0.01	0.09	p4865	CONDUIT	4.09	0 19:58	0.66	0.12	0.25
p4799	CONDUIT	0.82	0 19:58	0.55	0.02	0.09	p4866	CONDUIT	3.98	0 19:53	0.87	0.04	0.20
p4800	CONDUIT	1.26	0 19:15	0.64	0.02	0.11	p4867	CONDUIT	3.87	0 19:53	0.89	0.08	0.20
p4801	CONDUIT	2.09	0 07:53	0.87	0.03	0.13	p4868	CONDUIT	3.76	0 19:52	0.82	0.08	0.20
p4802	CONDUIT	2.20	0 07:53	0.93	0.03	0.13	p4869	CONDUIT	3.65	0 19:53	0.72	0.10	0.22
p4803	CONDUIT	2.31	0 19:54	0.97	0.03	0.13	p4870	CONDUIT	3.54	0 19:53	0.65	0.10	0.23
p4804	CONDUIT	2.42	0 07:53	0.95	0.04	0.14	p4871	CONDUIT	3.43	0 19:53	0.64	0.09	0.23
p4805	CONDUIT	2.53	0 07:57	0.95	0.04	0.14	p4872	CONDUIT	3.32	0 19:55	0.66	0.09	0.22
p4806	CONDUIT	2.64	0 07:40	0.77	0.04	0.17	p4873	CONDUIT	3.21	0 19:53	0.65	0.09	0.21
p4807	CONDUIT	2.75	0 07:57	0.68	0.07	0.19	p4874	CONDUIT	3.10	0 19:52	0.65	0.08	0.21
p4808	CONDUIT	2.86	0 19:55	0.84	0.05	0.17	p4875	CONDUIT	2.99	0 19:51	0.67	0.07	0.20
p4809	CONDUIT	2.97	0 19:55	0.88	0.06	0.16	p4876	CONDUIT	2.88	0 19:51	0.72	0.05	0.18
p4810	CONDUIT	3.08	0 07:39	0.73	0.05	0.19	p4879	CONDUIT	1.65	0 19:51	0.71	0.03	0.13
p4811	CONDUIT	3.19	0 07:55	0.63	0.10	0.22	p4880	CONDUIT	1.54	0 07:35	0.91	0.01	0.10
p4814	CONDUIT	3.41	0 07:44	0.69	0.05	0.22	p4881	CONDUIT	1.43	0 07:34	0.98	0.02	0.09

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p4882	CONDUIT	1.32	0 07:48	0.72	0.02	0.11	p5027	CONDUIT	0.25	0 07:13	0.32	0.01	0.06
p4883	CONDUIT	1.21	0 07:34	0.75	0.01	0.10	p5028	CONDUIT	0.21	0 07:30	0.29	0.01	0.06
p4884	CONDUIT	1.10	0 07:34	0.90	0.01	0.08	p5029	CONDUIT	0.18	0 07:27	0.31	0.00	0.05
p4885	CONDUIT	0.99	0 07:45	0.85	0.01	0.08	p5030	CONDUIT	0.14	0 07:30	0.33	0.00	0.04
p4886	CONDUIT	0.88	0 07:34	0.81	0.01	0.08	p5031	CONDUIT	0.11	0 07:26	0.28	0.00	0.04
p4887	CONDUIT	0.77	0 07:42	0.70	0.01	0.08	p5032	CONDUIT	0.07	0 07:26	0.24	0.00	0.03
p4888	CONDUIT	0.66	0 07:50	0.63	0.01	0.07	p5033	CONDUIT	0.04	0 07:25	0.20	0.00	0.02
p4889	CONDUIT	0.55	0 07:40	0.52	0.01	0.07	p5073	CONDUIT	6.74	0 08:00	0.81	0.16	0.31
p4890	CONDUIT	0.11	0 07:20	0.16	0.00	0.06	p5074	CONDUIT	6.77	0 08:00	0.78	0.21	0.32
p4983	CONDUIT	6.69	0 07:34	0.54	0.15	0.48	p5075	CONDUIT	6.81	0 08:00	0.77	0.19	0.32
p4984	CONDUIT	6.66	0 07:35	0.91	0.16	0.28	p5076	CONDUIT	6.84	0 08:00	0.77	0.21	0.33
p5004	CONDUIT	0.04	0 07:27	0.24	0.00	0.02	p5077	CONDUIT	6.88	0 08:00	0.80	0.20	0.32
p5005	CONDUIT	0.07	0 07:29	0.42	0.00	0.02	p5078	CONDUIT	6.91	0 20:00	0.77	0.21	0.33
p5006	CONDUIT	0.11	0 07:29	0.52	0.00	0.02	p5079	CONDUIT	6.95	0 20:00	0.79	0.21	0.32
p5007	CONDUIT	0.14	0 07:29	0.46	0.00	0.03	p5080	CONDUIT	6.98	0 20:00	0.88	0.16	0.30
p5008	CONDUIT	0.18	0 07:29	0.23	0.00	0.14	p5081	CONDUIT	7.02	0 20:00	0.75	0.19	0.34
p5009	CONDUIT	0.40	0 20:41	0.06	0.01	0.31	p5082	CONDUIT	7.26	0 20:00	0.76	0.22	0.34
p5011	CONDUIT	0.63	0 07:25	0.63	0.01	0.07	p5083	CONDUIT	7.30	0 20:00	0.84	0.20	0.32
p5012	CONDUIT	0.60	0 07:24	0.70	0.01	0.06	p5084	CONDUIT	7.33	0 20:00	0.83	0.20	0.32
p5013	CONDUIT	0.56	0 07:24	0.87	0.00	0.05	p5085	CONDUIT	7.37	0 08:00	0.83	0.22	0.32
p5014	CONDUIT	0.53	0 07:24	0.89	0.00	0.05	p5086	CONDUIT	0.39	0 07:31	0.60	0.01	0.05
p5015	CONDUIT	0.49	0 07:24	0.86	0.00	0.05	p5087	CONDUIT	0.35	0 07:31	0.38	0.01	0.07
p5016	CONDUIT	0.46	0 07:23	0.61	0.01	0.06	p5088	CONDUIT	0.32	0 07:29	0.36	0.01	0.06
p5017	CONDUIT	0.42	0 07:23	0.62	0.00	0.06	p5089	CONDUIT	0.28	0 07:28	0.32	0.01	0.07
p5018	CONDUIT	0.39	0 07:23	0.53	0.01	0.06	p5090	CONDUIT	0.25	0 07:14	0.29	0.01	0.06
p5019	CONDUIT	0.35	0 07:22	0.59	0.00	0.05	p5091	CONDUIT	0.14	0 07:47	0.29	0.00	0.04
p5020	CONDUIT	0.32	0 07:22	0.69	0.00	0.04	p5092	CONDUIT	0.11	0 07:47	0.33	0.00	0.03
p5021	CONDUIT	0.28	0 07:21	0.71	0.00	0.04	p5093	CONDUIT	0.07	0 07:42	0.24	0.00	0.03
p5022	CONDUIT	0.42	0 07:20	0.88	0.00	0.04	p5094	CONDUIT	0.03	0 07:30	0.16	0.00	0.03
p5023	CONDUIT	0.39	0 07:20	0.42	0.01	0.07	p5164	CONDUIT	0.04	0 07:39	0.27	0.00	0.02
p5024	CONDUIT	0.35	0 07:18	0.41	0.01	0.06	p5176	CONDUIT	10.82	0 19:43	0.94	0.26	0.39
p5025	CONDUIT	0.32	0 07:18	0.42	0.01	0.06	p5177	CONDUIT	10.86	0 19:43	0.91	0.28	0.41
p5026	CONDUIT	0.28	0 07:17	0.37	0.01	0.06	p5178	CONDUIT	10.89	0 19:44	0.89	0.30	0.41

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p5179	CONDUIT	10.93	0	19:44	0.84	0.30	0.43	p5270	CONDUIT	1.65	0	20:00	0.70	0.03	0.13
p5180	CONDUIT	10.96	0	19:44	0.88	0.30	0.42	p5271	CONDUIT	1.61	0	20:00	0.58	0.04	0.14
p5181	CONDUIT	11.00	0	19:45	0.96	0.27	0.39	p5272	CONDUIT	1.58	0	20:00	0.67	0.02	0.13
p5182	CONDUIT	11.03	0	19:45	0.93	0.20	0.40	p5273	CONDUIT	1.54	0	08:00	0.69	0.03	0.12
p5183	CONDUIT	11.07	0	19:45	1.11	0.20	0.36	p5274	CONDUIT	1.51	0	08:00	0.63	0.03	0.13
p5211	CONDUIT	7.75	0	07:43	0.66	0.07	0.46	p5275	CONDUIT	0.84	0	08:00	0.86	0.01	0.07
p5212	CONDUIT	7.53	0	07:51	1.79	0.07	0.19	p5276	CONDUIT	0.88	0	08:00	0.97	0.01	0.07
p5213	CONDUIT	7.31	0	07:48	1.60	0.08	0.20	p5277	CONDUIT	0.91	0	08:00	0.88	0.01	0.07
p5214	CONDUIT	7.09	0	07:48	1.49	0.09	0.21	p5278	CONDUIT	0.95	0	20:00	0.72	0.01	0.09
p5215	CONDUIT	6.04	0	07:51	0.90	0.15	0.27	p5279	CONDUIT	0.98	0	08:00	0.56	0.01	0.10
p5216	CONDUIT	5.82	0	07:47	0.82	0.12	0.28	p5280	CONDUIT	1.02	0	20:00	0.45	0.03	0.12
p5217	CONDUIT	5.60	0	07:50	0.80	0.11	0.27	p5281	CONDUIT	1.05	0	20:00	0.47	0.03	0.12
p5218	CONDUIT	5.38	0	07:55	0.81	0.11	0.27	p5282	CONDUIT	0.42	0	07:23	0.31	0.00	0.09
p5219	CONDUIT	5.16	0	07:55	0.82	0.09	0.26	p5283	CONDUIT	0.38	0	07:23	0.82	0.00	0.04
p5220	CONDUIT	4.94	0	07:46	0.81	0.10	0.25	p5284	CONDUIT	0.35	0	07:23	0.74	0.00	0.04
p5221	CONDUIT	4.91	0	07:57	0.79	0.12	0.25	p5285	CONDUIT	0.31	0	07:22	0.60	0.00	0.05
p5225	CONDUIT	2.39	0	07:53	1.11	0.03	0.12	p5286	CONDUIT	0.28	0	07:22	0.61	0.00	0.04
p5226	CONDUIT	1.34	0	07:32	0.81	0.02	0.10	p5287	CONDUIT	0.24	0	07:21	0.63	0.00	0.04
p5227	CONDUIT	0.29	0	07:31	0.37	0.00	0.07	p5288	CONDUIT	0.21	0	07:21	0.64	0.00	0.03
p5228	CONDUIT	0.25	0	07:32	0.51	0.00	0.04	p5289	CONDUIT	0.17	0	07:21	0.51	0.00	0.03
p5231	CONDUIT	0.18	0	07:34	0.50	0.00	0.04	p5304	CONDUIT	1.70	0	07:35	0.53	0.02	0.19
p5232	CONDUIT	0.15	0	07:30	0.44	0.00	0.03	p5305	CONDUIT	1.48	0	07:35	0.62	0.03	0.13
p5233	CONDUIT	0.11	0	19:34	0.36	0.00	0.03	p5306	CONDUIT	1.26	0	07:05	0.52	0.03	0.13
p5234	CONDUIT	0.08	0	07:31	0.30	0.00	0.03	p5310	CONDUIT	0.82	0	07:15	0.72	0.01	0.08
p5235	CONDUIT	0.04	0	07:31	0.24	0.00	0.02	p5311	CONDUIT	0.60	0	07:17	0.68	0.01	0.07
p5236	CONDUIT	0.01	0	07:33	0.03	0.00	0.02	p5312	CONDUIT	0.38	0	07:17	0.55	0.00	0.06
p5237	CONDUIT	0.03	0	07:33	0.15	0.00	0.02	p5313	CONDUIT	0.16	0	07:14	0.38	0.00	0.04
p5238	CONDUIT	0.06	0	07:35	0.31	0.00	0.02	p5314	CONDUIT	0.06	0	07:14	0.16	0.00	0.04
p5239	CONDUIT	0.10	0	07:32	0.37	0.00	0.03	p5315	CONDUIT	0.28	0	07:12	0.42	0.00	0.05
p5266	CONDUIT	1.79	0	08:00	0.56	0.05	0.16	p5316	CONDUIT	0.50	0	07:13	0.46	0.01	0.08
p5267	CONDUIT	1.75	0	08:00	0.56	0.05	0.16	p5317	CONDUIT	0.72	0	07:36	0.56	0.01	0.09
p5268	CONDUIT	1.72	0	08:00	0.64	0.03	0.14	p5322	CONDUIT	10.37	0	07:47	0.92	0.22	0.39
p5269	CONDUIT	1.68	0	08:00	0.70	0.03	0.13	p5325	CONDUIT	9.93	0	07:45	0.97	0.26	0.36

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p5326	CONDUIT	9.71	0 07:55	1.02	0.19	0.34	p5542	CONDUIT	1.82	0 08:00	0.18	0.01	0.19
p5327	CONDUIT	0.81	0 07:24	0.18	0.02	0.21	p5543	CONDUIT	21.47	0 20:00	1.27	0.36	0.53
p5328	CONDUIT	0.59	0 07:24	0.40	0.01	0.09	p5544	CONDUIT	21.36	0 20:00	0.91	0.65	0.70
p5329	CONDUIT	0.37	0 07:16	0.36	0.01	0.07	p5545	CONDUIT	21.25	0 20:00	0.89	0.63	0.71
p5330	CONDUIT	0.15	0 07:06	0.27	0.00	0.05	p5546	CONDUIT	21.14	0 20:00	0.97	0.64	0.66
p5331	CONDUIT	0.07	0 07:06	0.15	0.00	0.04	p5547	CONDUIT	21.03	0 20:00	0.93	0.62	0.68
p5332	CONDUIT	0.29	0 07:17	0.30	0.01	0.07	p5548	CONDUIT	20.92	0 20:00	0.96	0.62	0.66
p5333	CONDUIT	0.51	0 19:26	0.41	0.01	0.08	p5549	CONDUIT	5.51	0 20:00	0.43	0.08	0.42
p5334	CONDUIT	0.73	0 07:47	0.53	0.01	0.09	p5550	CONDUIT	5.40	0 20:00	0.95	0.11	0.24
p5335	CONDUIT	0.95	0 07:48	0.63	0.02	0.09	p5551	CONDUIT	5.29	0 20:00	0.98	0.08	0.23
p5336	CONDUIT	1.17	0 07:58	0.95	0.01	0.08	p5552	CONDUIT	5.18	0 20:00	1.08	0.09	0.21
p5337	CONDUIT	1.39	0 07:32	1.04	0.01	0.09	p5553	CONDUIT	5.07	0 20:00	1.08	0.09	0.21
p5338	CONDUIT	1.61	0 07:26	1.00	0.02	0.10	p5554	CONDUIT	4.96	0 20:00	0.76	0.14	0.26
p5339	CONDUIT	1.83	0 07:32	1.02	0.02	0.11	p5555	CONDUIT	4.85	0 20:00	0.76	0.09	0.26
p5340	CONDUIT	2.05	0 07:26	0.92	0.02	0.13	p5556	CONDUIT	4.74	0 20:00	0.78	0.11	0.25
p5341	CONDUIT	4.02	0 07:26	1.19	0.05	0.16	p5557	CONDUIT	4.63	0 20:00	0.72	0.14	0.26
p5342	CONDUIT	4.24	0 19:47	1.05	0.06	0.19	p5558	CONDUIT	4.52	0 20:00	0.69	0.13	0.26
p5345	CONDUIT	2.19	0 07:27	0.62	0.06	0.17	p5559	CONDUIT	4.41	0 20:00	0.79	0.09	0.23
p5346	CONDUIT	2.41	0 07:37	1.31	0.02	0.11	p5560	CONDUIT	4.30	0 20:00	0.79	0.11	0.23
p5347	CONDUIT	2.63	0 19:54	1.31	0.03	0.11	p5561	CONDUIT	4.19	0 20:00	0.84	0.07	0.22
p5348	CONDUIT	2.85	0 07:43	1.28	0.03	0.12	p5562	CONDUIT	0.17	0 07:16	0.20	0.00	0.11
p5349	CONDUIT	3.07	0 07:28	0.97	0.04	0.16	p5563	CONDUIT	0.06	0 07:15	0.22	0.00	0.03
p5350	CONDUIT	3.29	0 19:34	0.84	0.07	0.18	p5564	CONDUIT	0.05	0 07:15	0.14	0.00	0.03
p5351	CONDUIT	3.73	0 19:49	0.89	0.07	0.19	p5565	CONDUIT	0.16	0 07:25	0.26	0.00	0.05
p5352	CONDUIT	3.95	0 19:49	0.83	0.09	0.21	p5566	CONDUIT	0.27	0 07:25	0.36	0.01	0.06
p5353	CONDUIT	4.17	0 19:43	0.74	0.10	0.24	p5571	CONDUIT	1.67	0 07:54	0.58	0.04	0.15
p5354	CONDUIT	4.39	0 19:43	0.71	0.13	0.25	p5572	CONDUIT	1.78	0 07:53	0.56	0.05	0.16
p5355	CONDUIT	4.61	0 07:32	0.79	0.11	0.24	p5573	CONDUIT	1.89	0 07:48	0.53	0.05	0.17
p5359	CONDUIT	1.32	0 07:30	0.49	0.04	0.14	p5574	CONDUIT	2.00	0 07:54	0.54	0.06	0.18
p5360	CONDUIT	1.10	0 07:21	0.47	0.03	0.13	p5575	CONDUIT	2.11	0 07:58	0.62	0.05	0.17
p5361	CONDUIT	0.88	0 07:20	0.48	0.02	0.11	p5576	CONDUIT	2.22	0 07:56	0.65	0.06	0.17
p5364	CONDUIT	0.44	0 07:20	0.38	0.01	0.08	p5577	CONDUIT	2.33	0 07:57	0.63	0.05	0.18
p5365	CONDUIT	0.22	0 07:17	0.24	0.01	0.07	p5578	CONDUIT	2.44	0 07:57	0.58	0.07	0.19

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p5579	CONDUIT	2.55	0 19:56	0.62	0.07	0.19	p1419	CONDUIT	10.80	0 07:18	1.21	0.14	0.33
p5580	CONDUIT	2.66	0 19:56	0.65	0.07	0.19	p1420	CONDUIT	11.15	0 07:55	1.09	0.22	0.36
p5581	CONDUIT	2.77	0 07:57	0.66	0.08	0.19	p1421	CONDUIT	0.43	0 07:57	0.36	0.01	0.08
p5582	CONDUIT	2.88	0 07:57	0.67	0.07	0.19	p1426	CONDUIT	4.30	0 07:32	0.87	0.07	0.22
p5583	CONDUIT	3.77	0 07:59	0.91	0.07	0.19	p1430	CONDUIT	0.00	0 00:00	0.00	0.00	0.04
p5585	CONDUIT	0.33	0 07:10	0.13	0.00	0.17	p1431	CONDUIT	0.16	0 07:27	0.36	0.00	0.04
p5586	CONDUIT	0.22	0 07:09	0.42	0.00	0.05	p1432	CONDUIT	0.43	0 07:59	0.50	0.01	0.06
p5587	CONDUIT	0.11	0 07:07	0.43	0.00	0.03	p1433	CONDUIT	0.08	0 07:47	0.22	0.00	0.04
p5610	CONDUIT	6.70	0 20:00	0.88	0.12	0.29	p1434	CONDUIT	0.03	0 07:34	0.20	0.00	0.02
p806	CONDUIT	17.17	0 07:53	1.15	0.21	0.51	p1435	CONDUIT	0.07	0 07:39	0.02	0.00	0.20
p1361	CONDUIT	1.39	0 08:00	1.13	0.01	0.08	p1440	CONDUIT	6.21	0 07:51	0.99	0.12	0.25
p1392	CONDUIT	0.58	0 08:00	0.59	0.01	0.07	p1441	CONDUIT	0.00	0 00:00	0.00	0.00	0.14
p1393	CONDUIT	10.25	0 19:43	0.85	0.26	0.41	p1442	CONDUIT	3.30	0 19:45	0.96	0.06	0.17
p1394	CONDUIT	10.79	0 07:41	0.88	0.33	0.41	p1443	CONDUIT	11.75	0 19:50	1.43	0.13	0.31
p1395	CONDUIT	3.74	0 07:20	0.36	0.10	0.38	p1444	CONDUIT	10.59	0 07:52	0.92	0.30	0.39
p1396	CONDUIT	0.05	0 07:22	0.21	0.00	0.03	p1445	CONDUIT	10.15	0 19:58	1.19	0.14	0.32
p1397	CONDUIT	0.19	0 07:32	0.33	0.00	0.05	p1446	CONDUIT	4.46	0 07:27	1.13	0.06	0.18
p1398	CONDUIT	10.81	0 20:00	1.77	0.11	0.25	p1447	CONDUIT	4.83	0 07:31	0.95	0.03	0.22
p1399	CONDUIT	11.02	0 20:00	2.04	0.10	0.23	p1449	CONDUIT	2.42	0 07:42	0.66	0.03	0.18
p1403	CONDUIT	10.15	0 20:00	0.95	0.18	0.37	p1450	CONDUIT	4.87	0 07:57	0.82	0.11	0.24
p1404	CONDUIT	10.04	0 20:00	0.84	0.28	0.40	p1451	CONDUIT	0.61	0 07:33	0.11	0.00	0.24
p1405	CONDUIT	1.22	0 07:22	0.39	0.01	0.21	p1452	CONDUIT	10.88	0 07:02	0.96	0.25	0.39
p1406	CONDUIT	9.08	0 07:56	0.80	0.26	0.39	p1453	CONDUIT	13.28	0 20:00	1.10	0.30	0.41
p1407	CONDUIT	9.04	0 07:00	0.89	0.23	0.37	p1454	CONDUIT	2.35	0 20:00	0.48	0.07	0.21
p1410	CONDUIT	1.54	0 07:30	0.29	0.05	0.23	p1456	CONDUIT	0.47	0 07:57	0.27	0.00	0.10
p1411	CONDUIT	0.66	0 07:21	0.48	0.01	0.09	p1457	CONDUIT	0.01	0 07:21	0.10	0.00	0.02
p1412	CONDUIT	0.94	0 07:13	0.35	0.01	0.16	p1458	CONDUIT	0.04	0 07:34	0.23	0.00	0.02
p1413	CONDUIT	0.95	0 19:22	0.13	0.02	0.29	p1460	CONDUIT	0.42	0 19:18	0.48	0.01	0.07
p1414	CONDUIT	0.49	0 19:15	0.23	0.01	0.12	p1461	CONDUIT	0.33	0 07:48	0.20	0.00	0.10
p1415	CONDUIT	0.04	0 19:07	0.17	0.00	0.03	p1462	CONDUIT	0.07	0 07:58	0.17	0.00	0.07
p1416	CONDUIT	8.99	0 20:00	1.85	0.09	0.21	p1463	CONDUIT	0.22	0 07:32	0.52	0.00	0.04
p1417	CONDUIT	0.08	0 19:07	0.27	0.00	0.03	p1467	CONDUIT	2.70	0 07:39	1.23	0.01	0.12
p1418	CONDUIT	0.09	0 19:06	0.29	0.00	0.03	p1468	CONDUIT	0.19	0 19:10	0.72	0.00	0.03

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p1469	CONDUIT	11.49	0 07:52	0.99	0.13	0.40	p1519	CONDUIT	7.31	0 07:51	0.77	0.19	0.34
p1474	CONDUIT	1.04	0 07:16	0.56	0.02	0.11	p1520	CONDUIT	8.46	0 07:45	0.84	0.25	0.36
p1475	CONDUIT	13.32	0 19:54	1.03	0.30	0.43	p1521	CONDUIT	1.69	0 07:38	0.50	0.03	0.17
p1476	CONDUIT	0.04	0 07:23	0.19	0.00	0.02	p1522	CONDUIT	2.84	0 07:44	0.63	0.08	0.20
p1478	CONDUIT	0.78	0 07:35	0.64	0.01	0.08	p1523	CONDUIT	0.12	0 07:09	0.37	0.00	0.03
p1479	CONDUIT	0.07	0 07:21	0.49	0.00	0.02	p1524	CONDUIT	0.15	0 07:21	0.31	0.00	0.04
p1486	CONDUIT	1.56	0 07:48	0.75	0.02	0.12	p1525	CONDUIT	13.94	0 19:59	0.89	0.42	0.50
p1487	CONDUIT	0.38	0 07:24	0.32	0.01	0.08	p1526	CONDUIT	13.97	0 19:59	0.88	0.40	0.50
p1488	CONDUIT	0.15	0 07:25	0.45	0.00	0.03	p1527	CONDUIT	14.11	0 19:53	0.88	0.36	0.51
p1489	CONDUIT	0.57	0 07:33	0.52	0.01	0.08	p1528	CONDUIT	14.15	0 07:57	0.82	0.43	0.54
p1490	CONDUIT	0.61	0 07:41	0.34	0.02	0.11	p1529	CONDUIT	14.18	0 07:51	0.87	0.43	0.52
p1491	CONDUIT	6.50	0 07:30	0.98	0.15	0.26	p1530	CONDUIT	14.22	0 07:51	0.91	0.42	0.50
p1492	CONDUIT	6.53	0 07:41	0.87	0.15	0.29	p1531	CONDUIT	14.25	0 07:57	0.89	0.40	0.51
p1493	CONDUIT	0.46	0 20:00	0.43	0.01	0.08	p1532	CONDUIT	14.29	0 07:59	0.88	0.43	0.51
p1494	CONDUIT	0.50	0 20:00	0.43	0.01	0.08	p1533	CONDUIT	6.59	0 07:51	0.76	0.20	0.32
p1495	CONDUIT	0.18	0 07:59	0.43	0.00	0.04	p1534	CONDUIT	6.62	0 07:42	0.79	0.20	0.31
p1496	CONDUIT	0.14	0 07:59	0.51	0.00	0.03	p1535	CONDUIT	17.07	0 07:58	0.93	0.50	0.57
p1497	CONDUIT	0.04	0 07:40	0.15	0.00	0.03	p1536	CONDUIT	17.10	0 07:52	1.00	0.50	0.53
p1498	CONDUIT	0.07	0 07:45	0.20	0.00	0.04	p1537	CONDUIT	17.14	0 07:52	1.40	0.32	0.41
p1499	CONDUIT	4.20	0 19:58	0.68	0.10	0.25	p1538	CONDUIT	17.00	0 07:55	0.92	0.49	0.57
p1500	CONDUIT	4.31	0 19:58	0.65	0.13	0.26	p1539	CONDUIT	17.03	0 07:55	0.92	0.52	0.57
p1501	CONDUIT	11.30	0 20:00	0.81	0.34	0.46	p1540	CONDUIT	14.32	0 07:50	0.84	0.39	0.54
p1502	CONDUIT	11.34	0 20:00	0.83	0.34	0.45	p1541	CONDUIT	14.36	0 07:51	0.88	0.43	0.52
p1503	CONDUIT	11.37	0 20:00	0.86	0.32	0.44	p1542	CONDUIT	14.01	0 07:48	0.86	0.42	0.51
p1504	CONDUIT	11.41	0 20:00	0.84	0.32	0.45	p1543	CONDUIT	14.04	0 07:48	0.90	0.41	0.50
p1509	CONDUIT	0.32	0 07:09	0.61	0.00	0.05	p1544	CONDUIT	13.07	0 07:54	0.85	0.38	0.49
p1510	CONDUIT	0.54	0 07:11	0.77	0.01	0.06	p1545	CONDUIT	13.29	0 07:54	0.90	0.40	0.48
p1511	CONDUIT	0.76	0 19:15	0.97	0.01	0.06	p1546	CONDUIT	13.36	0 07:52	1.07	0.32	0.42
p1512	CONDUIT	0.98	0 07:14	1.11	0.01	0.07	p1547	CONDUIT	13.58	0 07:56	1.42	0.23	0.34
p1515	CONDUIT	3.64	0 07:43	0.97	0.03	0.18	p1548	CONDUIT	13.61	0 07:59	2.07	0.12	0.26
p1516	CONDUIT	4.79	0 07:47	0.86	0.11	0.23	p1549	CONDUIT	13.83	0 07:58	1.52	0.17	0.33
p1517	CONDUIT	5.01	0 07:56	0.72	0.12	0.27	p1550	CONDUIT	11.97	0 07:48	1.32	0.21	0.33
p1518	CONDUIT	6.16	0 07:47	0.75	0.19	0.31	p1551	CONDUIT	12.19	0 07:45	1.32	0.16	0.34

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p1552	CONDUIT	12.41	0 07:45	1.14	0.26	0.38	p209	CONDUIT	32.42	0 20:00	0.74	0.14	0.42
p1553	CONDUIT	1.22	0 07:25	0.98	0.01	0.08	p250	CONDUIT	9.39	0 07:38	1.04	0.22	0.33
p1554	CONDUIT	1.25	0 07:26	0.93	0.02	0.09	p251	CONDUIT	9.62	0 07:38	1.74	0.10	0.23
p1555	CONDUIT	1.29	0 07:26	0.96	0.01	0.09	p252	CONDUIT	0.34	0 07:16	0.10	0.01	0.17
p1556	CONDUIT	1.32	0 07:27	0.97	0.02	0.09	p3222	CONDUIT	24.49	0 07:57	1.07	0.70	0.68
p1557	CONDUIT	1.36	0 07:27	0.79	0.02	0.10	p3223	CONDUIT	24.46	0 07:56	1.03	0.62	0.71
p1558	CONDUIT	1.50	0 08:00	0.49	0.04	0.15	p3224	CONDUIT	24.42	0 07:59	1.06	0.44	0.69
p1559	CONDUIT	1.53	0 08:00	0.49	0.05	0.16	p3225	CONDUIT	24.39	0 19:56	1.16	0.31	0.64
p1480	CONDUIT	0.21	0 07:41	0.52	0.00	0.04	p3226	CONDUIT	24.35	0 07:56	1.29	0.44	0.58
p1481	CONDUIT	0.07	0 07:21	0.31	0.00	0.03	p3227	CONDUIT	24.32	0 19:57	1.12	0.44	0.65
p1482	CONDUIT	0.11	0 07:22	0.23	0.00	0.05	p3228	CONDUIT	24.28	0 19:57	1.02	0.44	0.71
p1483	CONDUIT	0.33	0 19:11	0.75	0.00	0.04	p3229	CONDUIT	24.25	0 19:58	0.95	0.60	0.75
p188	CONDUIT	33.33	0 20:00	0.71	0.18	0.44	p3230	CONDUIT	24.21	0 19:57	0.94	0.48	0.77
p189	CONDUIT	33.30	0 20:00	0.93	0.12	0.36	p3231	CONDUIT	24.18	0 19:57	0.95	0.54	0.76
p190	CONDUIT	33.26	0 20:00	0.94	0.18	0.36	p3232	CONDUIT	24.14	0 19:57	0.97	0.68	0.74
p191	CONDUIT	33.23	0 20:00	0.90	0.18	0.37	p3235	CONDUIT	24.07	0 07:56	1.34	0.40	0.56
p192	CONDUIT	33.19	0 20:00	0.90	0.18	0.37	p3236	CONDUIT	24.04	0 07:56	1.02	0.50	0.70
p193	CONDUIT	33.16	0 20:00	1.03	0.13	0.33	p4771	CONDUIT	25.89	0 20:00	0.74	0.12	0.36
p194	CONDUIT	33.12	0 20:00	1.07	0.16	0.32	p4832	CONDUIT	7.32	0 07:57	1.10	0.12	0.27
p195	CONDUIT	33.09	0 20:00	0.98	0.17	0.34	p4833	CONDUIT	7.43	0 07:56	1.09	0.13	0.27
p196	CONDUIT	33.05	0 20:00	0.99	0.19	0.34	p4980	CONDUIT	23.97	0 07:54	0.97	0.73	0.74
p197	CONDUIT	33.02	0 20:00	0.96	0.15	0.35	p4981	CONDUIT	23.93	0 07:53	0.95	0.61	0.75
p198	CONDUIT	32.98	0 20:00	0.98	0.16	0.34	p4982	CONDUIT	23.90	0 07:53	1.04	0.43	0.69
p199	CONDUIT	32.95	0 20:00	0.96	0.18	0.35	p494	CONDUIT	24.53	0 07:57	2.06	0.27	0.40
p200	CONDUIT	32.91	0 20:00	0.92	0.15	0.36	p1438	CONDUIT	7.76	0 07:54	1.09	0.12	0.28
p201	CONDUIT	32.88	0 20:00	1.19	0.14	0.30	p1513	CONDUIT	7.54	0 07:52	1.09	0.15	0.27
p202	CONDUIT	32.84	0 20:00	0.97	0.14	0.34	p1514	CONDUIT	7.65	0 07:52	1.23	0.13	0.25
p203	CONDUIT	32.81	0 20:00	0.95	0.16	0.35	p1560	CONDUIT	23.41	0 20:00	0.83	0.13	0.30
p204	CONDUIT	32.77	0 20:00	0.92	0.17	0.36	p1561	CONDUIT	25.78	0 20:00	0.96	0.14	0.29
p205	CONDUIT	32.74	0 20:00	0.78	0.19	0.41	p1484	CONDUIT	24.00	0 07:54	1.17	0.44	0.62
p206	CONDUIT	32.70	0 20:00	0.78	0.16	0.40	p1485	CONDUIT	24.11	0 07:54	1.32	0.36	0.56
p207	CONDUIT	32.67	0 20:00	0.88	0.19	0.37	p4837	CONDUIT	9.41	0 07:53	0.88	0.10	0.27
p208	CONDUIT	32.63	0 20:00	0.79	0.18	0.40	p4838	CONDUIT	9.52	0 07:53	0.98	0.12	0.25

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p4839	CONDUIT	9.63	0 07:53	1.41	0.08	0.20	p6	CONDUIT	0.86	0 07:12	0.85	0.01	0.07
p4840	CONDUIT	9.74	0 07:55	1.14	0.08	0.23	p7	CONDUIT	0.97	0 07:12	0.71	0.01	0.09
p4841	CONDUIT	9.85	0 07:55	0.88	0.14	0.28	p8	CONDUIT	1.08	0 07:12	0.73	0.02	0.09
p4842	CONDUIT	9.96	0 07:55	0.99	0.12	0.26	p9	CONDUIT	1.19	0 07:13	1.05	0.01	0.08
p4845	CONDUIT	10.18	0 07:56	0.76	0.17	0.32	p10	CONDUIT	1.30	0 07:13	0.87	0.01	0.09
p4846	CONDUIT	10.29	0 07:56	0.80	0.16	0.31	p11	CONDUIT	2.16	0 20:00	1.40	0.03	0.10
p4847	CONDUIT	10.40	0 07:56	0.80	0.13	0.31	p12	CONDUIT	2.27	0 08:00	1.14	0.01	0.11
p4848	CONDUIT	10.51	0 07:56	0.82	0.16	0.31	p13	CONDUIT	2.38	0 08:00	0.74	0.05	0.16
p4849	CONDUIT	10.62	0 07:58	1.01	0.12	0.27	p14	CONDUIT	2.49	0 08:00	0.69	0.06	0.17
p4850	CONDUIT	10.73	0 07:56	1.20	0.05	0.24	p15	CONDUIT	2.60	0 08:00	0.71	0.07	0.17
p4851	CONDUIT	10.84	0 07:56	0.83	0.18	0.31	p16	CONDUIT	2.71	0 08:00	0.72	0.06	0.18
p4852	CONDUIT	10.95	0 07:56	0.92	0.17	0.29	p17	CONDUIT	2.82	0 08:00	0.69	0.08	0.19
p4855	CONDUIT	27.67	0 07:56	1.02	0.44	0.54	p18	CONDUIT	2.93	0 08:00	0.70	0.08	0.19
p4858	CONDUIT	28.22	0 07:44	1.09	0.47	0.52	p19	CONDUIT	3.04	0 08:00	0.76	0.08	0.18
p337	CONDUIT	27.89	0 07:57	1.04	0.41	0.54	p20	CONDUIT	3.15	0 08:00	0.82	0.07	0.18
p378	CONDUIT	27.78	0 07:56	1.06	0.35	0.53	p21	CONDUIT	3.26	0 08:00	1.04	0.07	0.16
p550	CONDUIT	35.32	0 20:00	1.08	0.20	0.34	p22	CONDUIT	3.37	0 08:00	0.71	0.04	0.21
p1020	CONDUIT	28.00	0 08:00	1.04	0.40	0.54	p23	CONDUIT	1.82	0 08:00	0.39	0.03	0.21
p1326	CONDUIT	28.11	0 08:00	1.03	0.42	0.55	p24	CONDUIT	5.30	0 08:00	0.78	0.16	0.27
p1437	CONDUIT	10.07	0 07:57	0.93	0.08	0.27	p25	CONDUIT	5.41	0 08:00	0.78	0.13	0.27
p1439	CONDUIT	9.30	0 07:53	0.89	0.09	0.27	p26	CONDUIT	5.52	0 08:00	0.96	0.17	0.24
p1505	CONDUIT	11.06	0 07:56	0.85	0.16	0.31	p27	CONDUIT	5.63	0 08:00	1.23	0.07	0.20
p1506	CONDUIT	11.17	0 07:55	0.84	0.19	0.32	p28	CONDUIT	5.74	0 08:00	1.60	0.10	0.17
p1507	CONDUIT	11.28	0 07:55	0.86	0.16	0.31	p29	CONDUIT	5.85	0 20:00	0.83	0.03	0.34
p1508	CONDUIT	11.39	0 07:55	0.54	0.19	0.45	p30	CONDUIT	18.87	0 20:00	0.72	0.42	0.78
p4859	CONDUIT	28.33	0 20:00	1.15	0.26	0.38	p31	CONDUIT	0.67	0 07:25	0.15	0.00	0.22
p4860	CONDUIT	28.44	0 07:35	0.92	0.20	0.45	p32	CONDUIT	12.80	0 20:00	1.05	0.32	0.41
p397	CONDUIT	52.06	0 20:00	1.56	0.35	0.48	p33	CONDUIT	12.91	0 20:00	0.98	0.38	0.50
p1	CONDUIT	0.11	0 07:04	0.17	0.00	0.05	p34	CONDUIT	12.03	0 20:00	1.02	0.36	0.40
p2	CONDUIT	0.42	0 07:08	0.55	0.01	0.06	p35	CONDUIT	11.92	0 20:00	1.00	0.33	0.41
p3	CONDUIT	0.53	0 07:09	0.64	0.01	0.06	p36	CONDUIT	11.81	0 20:00	1.06	0.29	0.38
p4	CONDUIT	0.64	0 07:10	0.74	0.01	0.06	p37	CONDUIT	11.59	0 20:00	1.42	0.11	0.31
p5	CONDUIT	0.75	0 07:11	0.80	0.01	0.07	p38	CONDUIT	11.70	0 20:00	1.06	0.32	0.38



*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p39	CONDUIT	0.82	0 07:39	0.26	0.02	0.16	p72	CONDUIT	0.94	0 07:29	0.55	0.03	0.10
p40	CONDUIT	1.84	0 19:50	0.29	0.06	0.25	p73	CONDUIT	1.05	0 07:25	0.69	0.02	0.10
p41	CONDUIT	3.58	0 19:57	0.75	0.10	0.21	p74	CONDUIT	1.16	0 19:30	0.74	0.02	0.10
p42	CONDUIT	0.25	0 08:00	0.10	0.00	0.30	p75	CONDUIT	1.27	0 07:26	0.70	0.02	0.11
p43	CONDUIT	3.88	0 07:58	0.34	0.10	0.39	p76	CONDUIT	1.38	0 07:30	0.72	0.03	0.11
p44	CONDUIT	4.24	0 20:00	0.24	0.13	0.55	p85	CONDUIT	1.49	0 07:28	0.65	0.02	0.13
p45	CONDUIT	2.03	0 07:27	0.21	0.05	0.35	p86	CONDUIT	1.60	0 07:33	0.54	0.05	0.15
p46	CONDUIT	1.92	0 07:26	0.70	0.03	0.14	p95	CONDUIT	1.71	0 07:40	0.55	0.05	0.15
p47	CONDUIT	1.81	0 07:26	0.67	0.05	0.14	p102	CONDUIT	1.82	0 07:40	0.56	0.05	0.16
p48	CONDUIT	1.70	0 07:25	0.58	0.04	0.15	p103	CONDUIT	1.93	0 07:44	0.49	0.06	0.18
p49	CONDUIT	1.59	0 07:24	0.59	0.04	0.14	p104	CONDUIT	2.04	0 07:47	0.60	0.06	0.17
p50	CONDUIT	1.48	0 07:24	0.54	0.04	0.14	p105	CONDUIT	2.15	0 07:37	0.67	0.04	0.21
p51	CONDUIT	1.37	0 07:23	0.51	0.04	0.14	p106	CONDUIT	2.26	0 20:00	0.09	0.01	0.29
p52	CONDUIT	1.26	0 07:22	0.55	0.03	0.13	p107	CONDUIT	5.01	0 07:44	0.27	0.04	0.57
p53	CONDUIT	1.15	0 07:21	0.56	0.03	0.12	p108	CONDUIT	4.90	0 07:50	1.75	0.05	0.14
p54	CONDUIT	1.04	0 07:21	0.51	0.03	0.12	p109	CONDUIT	4.79	0 07:55	1.56	0.05	0.15
p55	CONDUIT	0.93	0 07:18	0.44	0.03	0.12	p110	CONDUIT	4.68	0 07:50	1.53	0.05	0.15
p56	CONDUIT	0.82	0 07:33	0.41	0.02	0.11	p111	CONDUIT	4.57	0 07:49	1.54	0.05	0.15
p57	CONDUIT	0.71	0 07:26	0.42	0.02	0.10	p112	CONDUIT	4.46	0 07:57	1.36	0.06	0.16
p58	CONDUIT	0.60	0 07:26	0.42	0.01	0.09	p113	CONDUIT	4.35	0 07:42	1.31	0.05	0.16
p59	CONDUIT	0.49	0 07:24	0.49	0.01	0.07	p114	CONDUIT	4.24	0 07:41	1.42	0.05	0.15
p60	CONDUIT	0.38	0 07:25	0.49	0.01	0.06	p115	CONDUIT	4.13	0 07:41	1.46	0.04	0.15
p61	CONDUIT	0.27	0 07:26	0.36	0.01	0.06	p116	CONDUIT	4.02	0 07:49	1.45	0.05	0.14
p62	CONDUIT	0.16	0 07:25	0.25	0.00	0.05	p117	CONDUIT	3.91	0 07:40	1.43	0.04	0.14
p63	CONDUIT	0.05	0 07:14	0.14	0.00	0.03	p118	CONDUIT	3.80	0 07:47	1.46	0.04	0.14
p64	CONDUIT	0.06	0 07:14	0.21	0.00	0.03	p145	CONDUIT	3.69	0 19:55	1.06	0.08	0.17
p65	CONDUIT	0.17	0 07:14	0.35	0.00	0.04	p150	CONDUIT	0.82	0 07:36	0.30	0.01	0.14
p66	CONDUIT	0.28	0 07:14	0.38	0.00	0.06	p151	CONDUIT	0.71	0 19:51	0.60	0.02	0.08
p67	CONDUIT	0.39	0 07:15	0.40	0.01	0.07	p177	CONDUIT	0.60	0 07:41	0.43	0.02	0.09
p68	CONDUIT	0.50	0 07:16	0.41	0.01	0.08	p210	CONDUIT	0.49	0 07:44	0.40	0.01	0.08
p69	CONDUIT	0.61	0 07:22	0.39	0.02	0.10	p211	CONDUIT	0.38	0 07:42	0.41	0.01	0.07
p70	CONDUIT	0.72	0 19:26	0.47	0.02	0.10	p212	CONDUIT	0.27	0 07:33	0.39	0.01	0.06
p71	CONDUIT	0.83	0 07:36	0.50	0.02	0.10	p213	CONDUIT	0.16	0 07:33	0.28	0.00	0.05

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p214	CONDUIT	0.05	0 07:23	0.15	0.00	0.03	p281	CONDUIT	3.93	0 19:15	0.76	0.11	0.22
p234	CONDUIT	0.06	0 07:23	0.23	0.00	0.03	p282	CONDUIT	4.04	0 07:15	0.74	0.10	0.23
p235	CONDUIT	0.17	0 07:34	0.36	0.00	0.04	p289	CONDUIT	4.15	0 07:16	0.58	0.13	0.28
p236	CONDUIT	0.28	0 19:38	0.48	0.00	0.05	p297	CONDUIT	13.54	0 07:16	1.56	0.22	0.32
p237	CONDUIT	0.39	0 07:37	0.52	0.00	0.06	p303	CONDUIT	13.65	0 07:16	1.40	0.23	0.35
p253	CONDUIT	0.50	0 07:44	0.47	0.01	0.07	p313	CONDUIT	13.76	0 19:17	1.40	0.29	0.35
p254	CONDUIT	0.61	0 07:44	0.51	0.01	0.08	p314	CONDUIT	13.87	0 07:17	1.57	0.23	0.32
p255	CONDUIT	0.72	0 07:40	0.14	0.01	0.23	p317	CONDUIT	13.98	0 07:17	1.54	0.22	0.33
p256	CONDUIT	1.07	0 19:09	0.93	0.01	0.08	p318	CONDUIT	14.09	0 19:17	1.38	0.26	0.36
p257	CONDUIT	1.18	0 07:12	0.81	0.02	0.09	p323	CONDUIT	14.20	0 07:17	1.24	0.30	0.39
p258	CONDUIT	1.29	0 07:12	0.83	0.02	0.10	p324	CONDUIT	14.31	0 07:17	1.38	0.35	0.36
p259	CONDUIT	1.40	0 07:13	0.82	0.02	0.10	p325	CONDUIT	14.42	0 07:17	1.70	0.22	0.32
p260	CONDUIT	1.51	0 07:17	0.67	0.02	0.12	p336	CONDUIT	14.53	0 07:18	1.41	0.21	0.36
p261	CONDUIT	1.62	0 19:06	0.67	0.04	0.13	p338	CONDUIT	14.64	0 07:18	1.29	0.35	0.39
p262	CONDUIT	1.73	0 07:07	0.78	0.03	0.12	p339	CONDUIT	14.75	0 07:18	1.54	0.29	0.34
p263	CONDUIT	1.84	0 19:07	0.80	0.03	0.13	p340	CONDUIT	14.86	0 07:18	1.32	0.22	0.39
p264	CONDUIT	1.95	0 07:08	0.67	0.03	0.15	p341	CONDUIT	14.97	0 19:18	1.11	0.43	0.45
p265	CONDUIT	2.06	0 19:08	0.68	0.06	0.15	p342	CONDUIT	15.08	0 07:19	1.19	0.39	0.42
p266	CONDUIT	2.17	0 07:08	0.90	0.04	0.13	p343	CONDUIT	15.19	0 19:19	1.18	0.36	0.43
p267	CONDUIT	2.28	0 07:09	0.74	0.03	0.15	p344	CONDUIT	15.30	0 07:19	1.22	0.41	0.42
p268	CONDUIT	2.40	0 07:08	0.65	0.07	0.18	p345	CONDUIT	15.41	0 07:19	1.84	0.32	0.31
p269	CONDUIT	2.50	0 07:10	0.67	0.06	0.18	p346	CONDUIT	15.52	0 07:19	1.54	0.12	0.36
p270	CONDUIT	2.61	0 07:10	0.60	0.08	0.20	p347	CONDUIT	15.63	0 07:19	1.07	0.47	0.47
p271	CONDUIT	2.72	0 07:11	0.62	0.08	0.20	p348	CONDUIT	15.74	0 07:20	1.09	0.44	0.47
p272	CONDUIT	2.94	0 07:11	0.78	0.07	0.18	p349	CONDUIT	15.85	0 07:20	1.03	0.46	0.49
p273	CONDUIT	3.05	0 07:12	0.82	0.06	0.18	p350	CONDUIT	15.96	0 07:21	1.07	0.48	0.48
p274	CONDUIT	3.16	0 07:13	0.79	0.07	0.19	p351	CONDUIT	16.07	0 07:21	1.10	0.41	0.47
p275	CONDUIT	3.27	0 07:13	0.73	0.08	0.20	p352	CONDUIT	16.18	0 07:22	0.67	0.49	0.72
p276	CONDUIT	3.38	0 07:13	0.80	0.09	0.19	1	PUMP	9.00	0 07:03	1.00		
p277	CONDUIT	3.49	0 07:14	0.94	0.07	0.18	2	PUMP	9.25	0 07:23	0.92		
p278	CONDUIT	3.60	0 07:14	0.95	0.07	0.18	3	PUMP	9.00	0 06:08	1.00		
p279	CONDUIT	3.71	0 19:15	0.98	0.07	0.18	4	PUMP	15.00	0 07:03	1.00		
p280	CONDUIT	3.82	0 07:15	0.84	0.07	0.20	5	PUMP	5.29	0 20:00	0.59		

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

6	PUMP	2.80	0	20:00	0.19	p96	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
7	PUMP	2.28	0	20:00	0.15	p97	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.01	0.00	0.00
8	PUMP	7.79	0	08:00	0.78	p98	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.01	0.00	0.00
9	PUMP	8.68	0	07:45	0.96	p99	1.00	0.01	0.00	0.00	0.00	0.40	0.00	0.59	0.00	0.00
10	PUMP	15.00	0	07:05	1.00	p100	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.04	0.00
11	PUMP	10.00	0	06:06	1.00	p101	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00

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Flow Classification Summary

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 Adjusted ----- Fraction of Time in Flow Class -----  
 /Actual Up Down Sub Sup Up Down Norm Inlet  
 Conduit Length Dry Dry Dry Crit Crit Crit Crit Ltd Ctrl  
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p77	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p78	1.00	0.01	0.00	0.00	0.01	0.98	0.00	0.00	0.95	0.00
p79	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p80	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p81	1.00	0.01	0.00	0.00	0.04	0.95	0.00	0.00	0.97	0.00
p82	1.00	0.01	0.00	0.00	0.04	0.95	0.00	0.00	0.97	0.00
p83	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p84	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p87	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p88	1.00	0.01	0.00	0.00	0.04	0.95	0.00	0.00	0.97	0.00
p89	1.00	0.01	0.00	0.00	0.00	0.97	0.00	0.01	0.85	0.00
p90	1.00	0.02	0.00	0.00	0.00	0.96	0.00	0.01	0.84	0.00
p91	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.01	0.92	0.00
p92	1.00	0.03	0.00	0.00	0.00	0.03	0.00	0.94	0.01	0.00
p93	1.00	0.04	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00
p94	1.00	0.02	0.02	0.00	0.96	0.00	0.00	0.00	0.93	0.00

p101	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p102	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p103	1.00	0.01	0.00	0.00	0.00	0.01	0.00	0.98	0.00	0.00
p104	1.00	0.01	0.00	0.00	0.98	0.00	0.00	0.00	0.97	0.00
p105	1.00	0.01	0.06	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p106	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p107	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.15	0.00
p108	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.02	0.00
p109	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p110	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p111	1.00	0.07	0.00	0.00	0.03	0.90	0.00	0.00	0.90	0.00
p112	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p113	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p114	1.00	0.07	0.00	0.00	0.00	0.10	0.00	0.82	0.00	0.00
p115	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
p116	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p117	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.90	0.00	0.00
p118	1.00	0.07	0.00	0.00	0.00	0.90	0.00	0.03	0.00	0.00
p119	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.81	0.00
p120	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p121	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p122	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p123	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p124	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p125	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p126	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p127	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p128	1.00	0.07	0.00	0.00	0.03	0.90	0.00	0.00	0.90	0.00
p129	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p130	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p131	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p132	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p133	1.00	0.07	0.00	0.00	0.00	0.10	0.00	0.82	0.00	0.00
p134	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
p135	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p136	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.90	0.00	0.00
p137	1.00	0.07	0.00	0.00	0.00	0.90	0.00	0.03	0.00	0.00
p138	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.81	0.00
p139	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p140	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p141	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.12	0.00
p142	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p143	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.89	0.00
p144	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p145	1.00	0.07	0.00	0.00	0.03	0.00	0.00	0.90	0.00	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p147	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p183	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.04	0.00
p148	1.00	0.07	0.00	0.00	0.01	0.00	0.00	0.92	0.00	0.00	p184	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.01	0.04	0.00
p149	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p185	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p152	1.00	0.07	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00	p186	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p153	1.00	0.07	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00	p187	1.00	0.01	0.06	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p154	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p215	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p155	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p216	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.26	0.00
p156	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p217	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p157	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p218	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.00	0.95	0.00
p158	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.04	0.00	p219	1.00	0.03	0.00	0.00	0.01	0.96	0.00	0.00	0.02	0.00
p159	1.00	0.07	0.00	0.00	0.00	0.48	0.00	0.45	0.00	0.00	p220	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00
p160	1.00	0.07	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00	p221	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.01	0.00
p161	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.82	0.00	p222	1.00	0.01	0.02	0.00	0.00	0.88	0.00	0.09	0.00	0.00
p162	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p223	1.00	0.01	0.00	0.00	0.02	0.97	0.00	0.00	0.03	0.00
p163	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p224	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.03	0.00
p164	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p225	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p165	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.90	0.00	p226	1.00	0.01	0.00	0.00	0.01	0.98	0.00	0.00	0.00	0.00
p166	1.00	0.07	0.00	0.00	0.01	0.04	0.00	0.89	0.00	0.00	p227	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
p167	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.90	0.00	0.00	p228	1.00	0.00	0.01	0.00	0.00	0.99	0.00	0.00	0.03	0.00
p168	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.12	0.00	p229	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.08	0.00
p169	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.20	0.00	p230	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.02	0.00
p170	1.00	0.07	0.00	0.00	0.00	0.20	0.00	0.73	0.00	0.00	p231	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
p171	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p232	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.56	0.00
p172	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.52	0.00	p233	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.83	0.00
p173	1.00	0.07	0.00	0.00	0.00	0.67	0.00	0.26	0.00	0.00	p238	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.07	0.00
p174	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	p239	1.00	0.07	0.00	0.00	0.57	0.00	0.36	0.00	0.08	0.00
p175	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	p240	1.00	0.07	0.00	0.00	0.06	0.83	0.00	0.04	0.10	0.00
p176	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p241	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.54	0.00
p178	1.00	0.07	0.00	0.00	0.00	0.09	0.00	0.83	0.00	0.00	p242	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p179	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.01	0.00	p243	1.00	0.01	0.06	0.00	0.00	0.86	0.00	0.06	0.79	0.00
p180	1.00	0.07	0.00	0.00	0.01	0.92	0.00	0.00	0.74	0.00	p244	1.00	0.01	0.00	0.00	0.97	0.02	0.00	0.00	0.97	0.00
p181	1.00	0.07	0.00	0.00	0.00	0.89	0.00	0.04	0.00	0.00	p245	1.00	0.07	0.00	0.00	0.54	0.39	0.00	0.00	0.90	0.00
p182	1.00	0.07	0.00	0.00	0.00	0.75	0.00	0.18	0.00	0.00	p246	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p247	1.00	0.07	0.00	0.00	0.73	0.00	0.00	0.20	0.00	0.00	p320	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p248	1.00	0.01	0.06	0.00	0.01	0.92	0.00	0.00	0.90	0.00	p321	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.89	0.00	0.00
p249	1.00	0.01	0.00	0.00	0.97	0.00	0.00	0.01	0.96	0.00	p322	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.90	0.00	0.00
p283	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	p326	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p284	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	p327	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p285	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.20	0.00	p328	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
p286	1.00	0.00	0.00	0.00	0.00	0.01	0.00	0.99	0.00	0.00	p329	1.00	0.00	0.00	0.00	0.00	0.84	0.00	0.16	0.00	0.00
p287	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p330	1.00	0.00	0.00	0.00	0.00	0.76	0.00	0.24	0.00	0.00
p288	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p331	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.01	0.00
p290	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p332	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
p291	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.98	0.00	p333	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p292	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.01	0.00	p334	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p293	1.00	0.01	0.00	0.00	0.00	0.11	0.00	0.88	0.00	0.00	p335	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.99	0.00
p294	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p423	1.00	0.01	0.00	0.00	0.10	0.88	0.00	0.01	0.00	0.00
p295	1.00	0.01	0.00	0.00	0.00	0.76	0.00	0.23	0.00	0.00	p424	1.00	0.01	0.00	0.00	0.10	0.89	0.00	0.00	0.00	0.00
p296	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p425	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p298	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p427	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.00	0.01	0.00
p299	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p428	1.00	0.01	0.00	0.00	0.22	0.77	0.00	0.00	0.01	0.00
p300	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p429	1.00	0.01	0.00	0.00	0.22	0.74	0.00	0.04	0.00	0.00
p301	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p430	1.00	0.01	0.00	0.00	0.36	0.63	0.00	0.00	0.01	0.00
p302	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p431	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p304	1.00	0.01	0.00	0.00	0.00	0.43	0.00	0.56	0.00	0.00	p433	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p305	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p434	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00
p306	1.00	0.01	0.06	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p435	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.89	0.00
p307	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p436	1.00	0.01	0.00	0.00	0.78	0.20	0.00	0.00	0.64	0.00
p308	1.00	0.07	0.00	0.00	0.07	0.86	0.00	0.00	0.90	0.00	p437	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00
p309	1.00	0.07	0.00	0.00	0.53	0.00	0.40	0.00	0.06	0.00	p438	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00
p310	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.04	0.00	p439	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
p311	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.03	0.00	p442	1.00	0.02	0.00	0.00	0.40	0.58	0.00	0.00	0.00	0.00
p312	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p443	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
p315	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p444	1.00	0.02	0.00	0.00	0.00	0.95	0.00	0.03	0.00	0.00
p316	1.00	0.07	0.00	0.00	0.11	0.82	0.00	0.00	0.90	0.00	p445	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p319	1.00	0.07	0.00	0.00	0.00	0.10	0.00	0.82	0.00	0.00	p446	1.00	0.02	0.00	0.00	0.00	0.95	0.00	0.03	0.00	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p447	1.00	0.02	0.00	0.00	0.00	0.95	0.00	0.03	0.00	0.00	p656	1.00	0.02	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p473	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p657	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00
p474	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p658	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00
p475	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p659	1.00	0.02	0.00	0.00	0.00	0.85	0.00	0.14	0.00
p476	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	p660	1.00	0.02	0.00	0.00	0.00	0.71	0.00	0.27	0.00
p477	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p661	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00
p478	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p662	1.00	0.02	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p479	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p663	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00
p480	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p664	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00
p481	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.12	0.00	p665	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00
p482	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p667	1.00	0.01	0.00	0.00	0.28	0.70	0.00	0.00	0.00
p483	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p668	1.00	0.01	0.00	0.00	0.42	0.57	0.00	0.00	0.00
p484	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.56	0.00	p669	1.00	0.07	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p485	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p670	1.00	0.07	0.00	0.00	0.11	0.82	0.00	0.00	0.90
p486	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	p671	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90
p487	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.73	0.00	p672	1.00	0.07	0.00	0.00	0.03	0.90	0.00	0.00	0.00
p488	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p680	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90
p489	1.00	0.07	0.00	0.00	0.00	0.40	0.00	0.53	0.00	0.00	p681	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90
p490	1.00	0.07	0.00	0.00	0.92	0.01	0.00	0.00	0.90	0.00	p682	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.89
p491	1.00	0.07	0.00	0.00	0.00	0.21	0.00	0.72	0.00	0.00	p683	1.00	0.07	0.00	0.00	0.00	0.53	0.00	0.39	0.00
p492	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p684	1.00	0.02	0.05	0.00	0.93	0.00	0.00	0.00	0.90
p493	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p714	1.00	0.01	0.03	0.00	0.49	0.48	0.00	0.00	0.18
p587	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p715	1.00	0.03	0.00	0.00	0.00	0.11	0.00	0.86	0.00
p588	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p716	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.94
p589	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p717	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.95
p591	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.89	0.00	p718	1.00	0.03	0.00	0.00	0.00	0.00	0.97	0.00	0.00
p592	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p719	1.00	0.02	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p595	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	p720	1.00	0.02	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p597	1.00	0.07	0.00	0.00	0.10	0.82	0.00	0.00	0.90	0.00	p721	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00
p600	1.00	0.07	0.00	0.00	0.00	0.51	0.00	0.42	0.00	0.00	p722	1.00	0.02	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p652	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.96	0.00	p723	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.01	0.96
p654	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	p724	1.00	0.01	0.01	0.00	0.00	0.01	0.00	0.97	0.00
p655	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p725	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.86

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p726	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p759	1.00	0.01	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p727	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.96	0.00	p809	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.00	0.00
p728	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.64	0.00	p810	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p729	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00	p812	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p730	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00	p813	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p731	1.00	0.01	0.00	0.00	0.00	0.04	0.00	0.95	0.00	0.00	p814	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p732	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00	p815	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.00	0.00
p733	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00	p816	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p734	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00	p817	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p735	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.01	0.00	p818	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p736	1.00	0.01	0.00	0.00	0.01	0.00	0.00	0.98	0.01	0.00	p819	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p737	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00	p820	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p738	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.18	0.00	p821	1.00	0.01	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p739	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p822	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p740	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p823	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.05
p741	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00	p824	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97
p742	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.02	0.00	p825	1.00	0.01	0.00	0.00	0.04	0.94	0.00	0.01	0.00
p743	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00	p826	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97
p744	1.00	0.01	0.00	0.00	0.96	0.00	0.03	0.00	0.00	0.00	p827	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97
p745	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p833	1.00	0.01	0.06	0.00	0.00	0.00	0.00	0.93	0.00
p746	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.98	0.00	p834	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.51
p747	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.90	0.00	p836	1.00	0.07	0.00	0.00	0.01	0.00	0.00	0.92	0.00
p748	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.21	0.00	p837	1.00	0.06	0.00	0.00	0.93	0.00	0.00	0.00	0.90
p749	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p838	1.00	0.06	0.00	0.00	0.00	0.93	0.00	0.00	0.90
p750	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p841	1.00	0.06	0.00	0.00	0.00	0.51	0.00	0.43	0.00
p751	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p842	1.00	0.06	0.00	0.00	0.00	0.00	0.00	0.94	0.00
p752	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.01	0.00	0.00	p843	1.00	0.06	0.00	0.00	0.00	0.94	0.00	0.01	0.00
p753	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p844	1.00	0.05	0.00	0.00	0.00	0.94	0.00	0.00	0.00
p754	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p845	1.00	0.05	0.00	0.00	0.00	0.95	0.00	0.00	0.05
p755	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p846	1.00	0.05	0.00	0.00	0.00	0.95	0.00	0.00	0.00
p756	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p847	1.00	0.05	0.00	0.00	0.00	0.00	0.00	0.95	0.00
p757	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p848	1.00	0.05	0.00	0.00	0.00	0.95	0.00	0.00	0.92
p758	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00	p849	1.00	0.04	0.00	0.00	0.00	0.00	0.00	0.96	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p852	1.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.02	0.00	p894	1.00	0.07	0.00	0.00	0.00	0.24	0.00	0.68	0.00	0.00
p853	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p895	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p854	1.00	0.01	0.00	0.00	0.00	0.01	0.00	0.99	0.00	0.00	p896	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.01	0.00
p855	1.00	0.00	0.01	0.00	0.41	0.59	0.00	0.00	0.19	0.00	p897	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p856	1.00	0.00	0.00	0.00	0.08	0.91	0.00	0.00	0.00	0.00	p898	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.25	0.00
p857	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	p899	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p861	1.00	0.00	0.00	0.00	0.00	0.95	0.00	0.05	0.00	0.00	p900	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.12	0.00
p862	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	p901	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
p863	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	p902	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.04	0.00
p868	1.00	0.01	0.00	0.00	0.14	0.84	0.00	0.00	0.97	0.00	p903	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00
p869	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.01	0.96	0.00	p925	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.00	0.88	0.00
p870	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.01	0.95	0.00	p926	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p871	1.00	0.03	0.00	0.00	0.00	0.03	0.00	0.95	0.00	0.00	p927	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p872	1.00	0.03	0.00	0.00	0.00	0.96	0.00	0.01	0.00	0.00	p928	1.00	0.01	0.00	0.00	0.05	0.93	0.00	0.02	0.00	0.00
p873	1.00	0.03	0.00	0.00	0.00	0.96	0.00	0.00	0.94	0.00	p929	1.00	0.00	0.00	0.00	0.05	0.94	0.00	0.01	0.22	0.00
p874	1.00	0.04	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00	p930	1.00	0.00	0.07	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p875	1.00	0.04	0.00	0.00	0.00	0.96	0.00	0.00	0.93	0.00	p931	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p876	1.00	0.04	0.03	0.00	0.01	0.92	0.00	0.00	0.90	0.00	p932	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p877	1.00	0.07	0.00	0.00	0.03	0.00	0.00	0.90	0.00	0.00	p939	1.00	0.04	0.00	0.00	0.94	0.00	0.00	0.02	0.28	0.00
p878	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.20	0.00	p942	1.00	0.06	0.00	0.00	0.01	0.92	0.00	0.01	0.06	0.00
p879	1.00	0.07	0.00	0.00	0.01	0.92	0.00	0.00	0.90	0.00	p943	1.00	0.06	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00
p880	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p944	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.01	0.00
p881	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p945	1.00	0.07	0.00	0.00	0.56	0.37	0.00	0.00	0.90	0.00
p882	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p948	1.00	0.07	0.00	0.00	0.56	0.36	0.00	0.00	0.55	0.00
p883	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p949	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.90	0.00
p884	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p950	1.00	0.07	0.00	0.00	0.00	0.10	0.00	0.82	0.00	0.00
p887	1.00	0.07	0.00	0.00	0.00	0.16	0.00	0.76	0.00	0.00	p951	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.90	0.00
p888	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p952	1.00	0.07	0.00	0.00	0.11	0.00	0.00	0.82	0.00	0.00
p889	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.89	0.00	0.00	p953	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p890	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p954	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p891	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.90	0.00	0.00	p955	1.00	0.07	0.00	0.00	0.00	0.53	0.00	0.39	0.00	0.00
p892	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p956	1.00	0.07	0.00	0.00	0.54	0.38	0.00	0.00	0.90	0.00
p893	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.89	0.00	0.00	p957	1.00	0.07	0.00	0.00	0.73	0.20	0.00	0.00	0.89	0.00



*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p958	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p1011	1.00	0.02	0.05	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p959	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p1013	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p962	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p1014	1.00	0.07	0.00	0.00	0.00	0.36	0.00	0.57	0.00	0.00
p963	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.89	0.00	p1015	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p964	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p1016	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p965	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p1017	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00
p966	1.00	0.07	0.00	0.00	0.21	0.71	0.00	0.00	0.89	0.00	p1018	1.00	0.03	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
p967	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.00	p1022	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
p968	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.89	0.00	p1023	1.00	0.00	0.00	0.00	0.00	0.05	0.00	0.95	0.00	0.00
p969	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.00	p1024	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.98	0.00
p970	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p1025	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p971	1.00	0.07	0.00	0.00	0.92	0.00	0.00	0.00	0.89	0.00	p1026	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.98	0.00
p972	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p1027	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.98	0.00
p977	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.00	0.01	0.00	p1028	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
p978	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.01	0.00	p1029	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00
p979	1.00	0.01	0.00	0.00	0.00	0.20	0.00	0.78	0.01	0.00	p1030	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00
p981	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00	p1174	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
p982	1.00	0.01	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	p1176	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p983	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00	p1177	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p984	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p1178	1.00	0.01	0.00	0.00	0.86	0.13	0.00	0.00	0.97	0.00
p985	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p1179	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00
p986	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p1180	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00
p987	1.00	0.01	0.00	0.00	0.00	0.37	0.00	0.61	0.00	0.00	p1233	1.00	0.01	0.00	0.00	0.96	0.02	0.00	0.00	0.97	0.00
p988	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p1234	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p989	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p1237	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p991	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p1239	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00
p992	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p1615	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.01	0.96	0.00
p1001	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p1616	1.00	0.01	0.06	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p1006	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p1617	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p1007	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p1618	1.00	0.07	0.00	0.00	0.54	0.39	0.00	0.00	0.90	0.00
p1008	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.01	0.03	0.00	p1699	1.00	0.00	0.07	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p1009	1.00	0.01	0.06	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p1700	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p1010	1.00	0.01	0.00	0.00	0.93	0.06	0.00	0.01	0.96	0.00	p1806	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.01	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p1978	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p2897	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.01	0.57	0.00
p1979	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p2898	1.00	0.01	0.01	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p1982	1.00	0.02	0.00	0.00	0.00	0.83	0.00	0.15	0.00	0.00	p2899	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p1986	1.00	0.01	0.00	0.00	0.96	0.03	0.00	0.00	0.98	0.00	p2900	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.96	0.00
p1987	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p2901	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p1988	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	p2902	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p1989	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.01	0.00	p2903	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p2046	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p2904	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p2047	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.98	0.00	p2905	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p2543	1.00	0.07	0.00	0.00	0.13	0.80	0.00	0.00	0.03	0.00	p2906	1.00	0.02	0.00	0.00	0.00	0.87	0.00	0.11	0.00	0.00
p2544	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p2907	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p2548	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p2908	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p2549	1.00	0.07	0.00	0.00	0.00	0.17	0.00	0.76	0.00	0.00	p2909	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p2550	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p2910	1.00	0.02	0.00	0.00	0.00	0.84	0.00	0.14	0.00	0.00
p2554	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p2911	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.97	0.00
p2876	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p2912	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p2877	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p2913	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.04	0.00
p2878	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p2914	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
p2879	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	p2915	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
p2880	1.00	0.03	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	p2916	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.17	0.00
p2884	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.01	0.96	0.00	p2917	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.06	0.00
p2885	1.00	0.01	0.06	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p2918	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
p2886	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p2919	1.00	0.01	0.00	0.00	0.00	0.48	0.00	0.51	0.00	0.00
p2887	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p2920	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.01	0.00	0.00
p2888	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p2921	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
p2889	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.01	0.00	p2922	1.00	0.01	0.00	0.00	0.00	0.76	0.00	0.23	0.00	0.00
p2890	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	p2923	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p2891	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p2924	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
p2892	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p2925	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.01	0.00
p2893	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p2926	1.00	0.01	0.00	0.00	0.00	0.84	0.00	0.15	0.00	0.00
p2894	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	p2927	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.16	0.00
p2895	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p2928	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
p2896	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p2929	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p2930	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p2982	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p2931	1.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p2983	1.00	0.07	0.00	0.00	0.00	0.83	0.00	0.09	0.00	0.00
p2932	1.00	0.02	0.05	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p2984	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p2933	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p2987	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p2934	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p2988	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p2947	1.00	0.01	0.00	0.00	0.98	0.00	0.00	0.00	0.97	0.00	p2989	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p2948	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p2990	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.89	0.00	0.00
p2949	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	p2991	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p2950	1.00	0.00	0.07	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p2992	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p2951	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.01	0.11	0.00	p2993	1.00	0.07	0.00	0.00	0.00	0.90	0.00	0.03	0.08	0.00
p2952	1.00	0.01	0.06	0.00	0.00	0.93	0.00	0.00	0.01	0.00	p2994	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.57	0.00
p2953	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.51	0.00	p2995	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p2954	1.00	0.07	0.00	0.00	0.00	0.14	0.00	0.79	0.00	0.00	p2996	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p2955	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.04	0.00	p2997	1.00	0.07	0.00	0.00	0.92	0.00	0.00	0.00	0.90	0.00
p2956	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.01	0.00	p2999	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.73	0.00
p2957	1.00	0.07	0.00	0.00	0.00	0.84	0.00	0.09	0.00	0.00	p3000	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.89	0.00
p2958	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3001	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p2959	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.01	0.00	p3002	1.00	0.07	0.00	0.00	0.00	0.89	0.00	0.03	0.00	0.00
p2960	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	p3003	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.01	0.00
p2961	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	p3004	1.00	0.07	0.00	0.00	0.00	0.91	0.00	0.02	0.00	0.00
p2962	1.00	0.06	0.00	0.00	0.00	0.93	0.00	0.01	0.01	0.00	p3005	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
p2963	1.00	0.06	0.00	0.00	0.00	0.94	0.00	0.00	0.10	0.00	p3006	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.04	0.00
p2964	1.00	0.05	0.00	0.00	0.00	0.94	0.00	0.01	0.02	0.00	p3007	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.55	0.00
p2965	1.00	0.04	0.00	0.00	0.00	0.95	0.00	0.02	0.92	0.00	p3008	1.00	0.07	0.00	0.00	0.11	0.81	0.00	0.00	0.00	0.00
p2971	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	p3009	1.00	0.07	0.00	0.00	0.04	0.87	0.00	0.02	0.00	0.00
p2972	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p3010	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p2973	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.03	0.00	p3034	1.00	0.07	0.00	0.00	0.11	0.82	0.00	0.00	0.00	0.00
p2974	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	p3042	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p2975	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.03	0.00	p3043	1.00	0.07	0.00	0.00	0.03	0.90	0.00	0.00	0.90	0.00
p2976	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p3044	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p2977	1.00	0.07	0.00	0.00	0.92	0.01	0.00	0.00	0.90	0.00	p3045	1.00	0.07	0.00	0.00	0.00	0.17	0.00	0.76	0.00	0.00
p2978	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.89	0.00	0.00	p3046	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p2979	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3047	1.00	0.07	0.00	0.00	0.04	0.89	0.00	0.00	0.14	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p3048	1.00	0.07	0.00	0.00	0.92	0.01	0.00	0.00	0.89	0.00	p3108	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
p3049	1.00	0.07	0.00	0.00	0.10	0.83	0.00	0.00	0.90	0.00	p3109	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.01	0.00
p3050	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p3110	1.00	0.07	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00
p3057	1.00	0.07	0.00	0.00	0.01	0.81	0.00	0.11	0.00	0.00	p3111	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.01	0.01	0.00
p3058	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3112	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
p3059	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.01	0.00	p3113	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.62	0.00
p3060	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p3114	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p3061	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3115	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p3062	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p3116	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p3063	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	p3117	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p3064	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	p3118	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p3065	1.00	0.07	0.00	0.00	0.00	0.09	0.00	0.83	0.00	0.00	p3127	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p3066	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.73	0.00	p3128	1.00	0.07	0.00	0.00	0.82	0.11	0.00	0.00	0.89	0.00
p3067	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p3129	1.00	0.07	0.00	0.00	0.17	0.00	0.00	0.76	0.00	0.00
p3068	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	p3130	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p3069	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3132	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p3070	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.89	0.00	0.00	p3133	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p3071	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3134	1.00	0.01	0.07	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p3072	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3135	1.00	0.07	0.00	0.00	0.00	0.17	0.00	0.76	0.00	0.00
p3074	1.00	0.07	0.00	0.00	0.10	0.83	0.00	0.00	0.90	0.00	p3136	1.00	0.07	0.00	0.00	0.90	0.02	0.00	0.00	0.90	0.00
p3076	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p3137	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p3078	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	p3138	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p3079	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p3150	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p3080	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.90	0.00	0.00	p3151	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p3081	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3152	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.89	0.00
p3082	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	p3153	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.13	0.00
p3083	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3154	1.00	0.07	0.00	0.00	0.92	0.01	0.00	0.00	0.90	0.00
p3084	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3155	1.00	0.07	0.00	0.00	0.11	0.82	0.00	0.00	0.80	0.00
p3085	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3158	1.00	0.07	0.00	0.00	0.01	0.00	0.00	0.92	0.01	0.00
p3086	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3159	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p3105	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3160	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
p3106	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p3278	1.00	0.07	0.00	0.00	0.03	0.90	0.00	0.00	0.90	0.00
p3107	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p3279	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p3280	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.72	0.00	p3570	1.00	0.04	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
p3281	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3571	1.00	0.04	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00
p3282	1.00	0.07	0.00	0.00	0.00	0.11	0.00	0.82	0.00	0.00	p3572	1.00	0.04	0.03	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p3283	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.71	0.00	p3573	1.00	0.07	0.00	0.00	0.03	0.00	0.00	0.90	0.00	0.00
p3284	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p3574	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.03	0.00
p3285	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3575	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.03	0.00
p3286	1.00	0.01	0.07	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p3576	1.00	0.07	0.00	0.00	0.92	0.01	0.00	0.00	0.90	0.00
p3363	1.00	0.07	0.00	0.00	0.79	0.14	0.00	0.00	0.83	0.00	p3577	1.00	0.07	0.00	0.00	0.09	0.00	0.00	0.84	0.00	0.00
p3364	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3578	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.89	0.00
p3365	1.00	0.07	0.00	0.00	0.11	0.82	0.00	0.00	0.90	0.00	p3579	1.00	0.07	0.00	0.00	0.01	0.92	0.00	0.00	0.90	0.00
p3366	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p3580	1.00	0.07	0.00	0.00	0.04	0.00	0.00	0.88	0.00	0.00
p3394	1.00	0.03	0.04	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p3634	1.00	0.01	0.00	0.00	0.98	0.01	0.00	0.00	0.97	0.00
p3395	1.00	0.07	0.00	0.00	0.04	0.49	0.00	0.40	0.00	0.00	p3849	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p3396	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.89	0.00	p3850	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p3397	1.00	0.07	0.00	0.00	0.91	0.02	0.00	0.00	0.90	0.00	p3851	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p3398	1.00	0.07	0.00	0.00	0.73	0.20	0.00	0.00	0.90	0.00	p3852	1.00	0.01	0.00	0.00	0.00	0.12	0.00	0.86	0.00	0.00
p3399	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p3853	1.00	0.02	0.01	0.00	0.97	0.00	0.00	0.00	0.94	0.00
p3407	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p4772	1.00	0.00	0.02	0.00	0.97	0.00	0.00	0.00	0.95	0.00
p3408	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p4773	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00
p3409	1.00	0.07	0.00	0.00	0.01	0.92	0.00	0.00	0.89	0.00	p4774	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.77	0.00
p3410	1.00	0.07	0.00	0.00	0.45	0.48	0.00	0.00	0.90	0.00	p4775	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.95	0.00
p3411	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.00	p4776	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00
p3559	1.00	0.03	0.00	0.00	0.00	0.96	0.00	0.01	0.00	0.00	p4777	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.95	0.00
p3560	1.00	0.03	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	p4778	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.80	0.00
p3561	1.00	0.04	0.00	0.00	0.00	0.74	0.00	0.22	0.00	0.00	p4779	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.95	0.00
p3562	1.00	0.04	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	p4780	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.79	0.00
p3563	1.00	0.04	0.00	0.00	0.00	0.88	0.00	0.08	0.00	0.00	p4781	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.95	0.00
p3564	1.00	0.04	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	p4782	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.95	0.00
p3565	1.00	0.04	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	p4783	1.00	0.03	0.00	0.00	0.00	0.77	0.00	0.20	0.61	0.00
p3566	1.00	0.04	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	p4784	1.00	0.03	0.77	0.00	0.20	0.00	0.00	0.00	0.75	0.00
p3567	1.00	0.04	0.00	0.00	0.00	0.94	0.00	0.01	0.00	0.00	p4785	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p3568	1.00	0.04	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	p4786	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p3569	1.00	0.04	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00	p4787	1.00	0.02	0.00	0.00	0.00	0.94	0.00	0.04	0.00	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p4788	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.02	0.00	p4823	1.00	0.02	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p4789	1.00	0.02	0.01	0.00	0.97	0.00	0.00	0.00	0.95	0.00	p4826	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.00	0.00
p4790	1.00	0.03	0.00	0.00	0.00	0.05	0.00	0.93	0.00	0.00	p4827	1.00	0.02	0.00	0.00	0.00	0.70	0.00	0.28	0.00
p4791	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.95	0.00	p4828	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.00	0.04
p4792	1.00	0.03	0.00	0.00	0.03	0.94	0.00	0.00	0.95	0.00	p4829	1.00	0.03	0.00	0.00	0.00	0.87	0.00	0.11	0.00
p4793	1.00	0.03	0.00	0.00	0.97	0.00	0.00	0.00	0.95	0.00	p4830	1.00	0.03	0.00	0.00	0.00	0.40	0.00	0.58	0.00
p4794	1.00	0.01	0.02	0.00	0.97	0.00	0.00	0.00	0.95	0.00	p4831	1.00	0.03	0.00	0.00	0.00	0.37	0.00	0.60	0.00
p4795	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.01	0.97	0.00	p4861	1.00	0.00	0.02	0.00	0.97	0.01	0.00	0.00	0.96
p4796	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p4862	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00
p4797	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.96	0.00	p4863	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.05
p4798	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.87	0.00	p4865	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00
p4799	1.00	0.01	0.01	0.00	0.00	0.98	0.00	0.00	0.79	0.00	p4866	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.96
p4800	1.00	0.01	0.01	0.00	0.00	0.98	0.00	0.00	0.81	0.00	p4867	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00
p4801	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.01	0.01	0.00	p4868	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00
p4802	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p4869	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00
p4803	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.26	0.00	p4870	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.01	0.00
p4804	1.00	0.01	0.00	0.00	0.00	0.95	0.00	0.03	0.00	0.00	p4871	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p4805	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.00	0.01	0.00	p4872	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p4806	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.00	0.97	0.00	p4873	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p4807	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p4874	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.02
p4808	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	p4875	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00
p4809	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p4876	1.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.03
p4810	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.96	0.00	p4879	1.00	0.00	0.02	0.00	0.00	0.00	0.00	0.97	0.00
p4811	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p4880	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.95
p4814	1.00	0.02	0.01	0.00	0.00	0.98	0.00	0.00	0.96	0.00	p4881	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00
p4815	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p4882	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00
p4816	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.04	0.00	p4883	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.95
p4817	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p4884	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.00	0.95
p4818	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	p4885	1.00	0.02	0.00	0.00	0.00	0.96	0.00	0.01	0.00
p4819	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p4886	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.00	0.95
p4820	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	p4887	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00
p4821	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	p4888	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.01	0.61
p4822	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	p4889	1.00	0.02	0.00	0.00	0.00	0.06	0.00	0.93	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p4890	1.00	0.02	0.01	0.00	0.97	0.00	0.00	0.00	0.95	0.00	p5074	1.00	0.01	0.00	0.00	0.00	0.21	0.00	0.78	0.00	0.00
p4983	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.96	0.00	p5075	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.01	0.00
p4984	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p5076	1.00	0.02	0.00	0.00	0.00	0.77	0.00	0.21	0.00	0.00
p5004	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5077	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.01	0.00	0.00
p5005	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5078	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.01	0.00	0.00
p5006	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5079	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p5007	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5080	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
p5008	1.00	0.03	0.04	0.00	0.90	0.03	0.00	0.00	0.90	0.00	p5081	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.03	0.00
p5009	1.00	0.01	0.01	0.00	0.97	0.00	0.01	0.00	0.04	0.00	p5082	1.00	0.03	0.00	0.00	0.00	0.23	0.00	0.74	0.00	0.00
p5011	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	p5083	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
p5012	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5084	1.00	0.03	0.00	0.00	0.00	0.96	0.00	0.01	0.00	0.00
p5013	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5085	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00
p5014	1.00	0.07	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00	p5086	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00
p5015	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.05	0.00	p5087	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.90	0.00	0.00
p5016	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p5088	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.89	0.00
p5017	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5089	1.00	0.07	0.00	0.00	0.03	0.08	0.00	0.81	0.00	0.00
p5018	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p5090	1.00	0.07	0.00	0.00	0.92	0.01	0.00	0.00	0.01	0.00
p5019	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5091	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p5020	1.00	0.07	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00	p5092	1.00	0.07	0.00	0.00	0.00	0.11	0.00	0.81	0.00	0.00
p5021	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5093	1.00	0.07	0.00	0.00	0.11	0.82	0.00	0.00	0.90	0.00
p5022	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p5094	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p5023	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p5164	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
p5024	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5176	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p5025	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.12	0.00	p5177	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p5026	1.00	0.07	0.00	0.00	0.00	0.10	0.00	0.82	0.00	0.00	p5178	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p5027	1.00	0.07	0.00	0.00	0.03	0.30	0.00	0.59	0.01	0.00	p5179	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p5028	1.00	0.07	0.00	0.00	0.53	0.39	0.00	0.00	0.88	0.00	p5180	1.00	0.02	0.00	0.00	0.00	0.40	0.00	0.58	0.00	0.00
p5029	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5181	1.00	0.02	0.00	0.00	0.00	0.83	0.00	0.14	0.00	0.00
p5030	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.18	0.00	p5182	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
p5031	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.89	0.00	p5183	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p5032	1.00	0.07	0.00	0.00	0.03	0.90	0.00	0.00	0.90	0.00	p5211	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.98	0.00
p5033	1.00	0.07	0.00	0.00	0.10	0.82	0.00	0.00	0.90	0.00	p5212	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
p5073	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.02	0.00	p5213	1.00	0.00	0.00	0.00	0.00	0.94	0.00	0.06	0.00	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p5214	1.00	0.00	0.00	0.00	0.00	0.77	0.00	0.23	0.00	0.00	p5278	1.00	0.07	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00
p5215	1.00	0.00	0.01	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p5279	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p5216	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p5280	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p5217	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p5281	1.00	0.07	0.00	0.00	0.01	0.92	0.00	0.00	0.12	0.00
p5218	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p5282	1.00	0.07	0.00	0.00	0.91	0.01	0.00	0.00	0.90	0.00
p5219	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p5283	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.82	0.00
p5220	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p5284	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
p5221	1.00	0.01	0.00	0.00	0.00	0.40	0.00	0.59	0.00	0.00	p5285	1.00	0.07	0.00	0.00	0.00	0.02	0.00	0.90	0.00	0.00
p5225	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.82	0.00	p5286	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p5226	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.99	0.00	p5287	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.73	0.00
p5227	1.00	0.00	0.07	0.00	0.51	0.42	0.00	0.00	0.90	0.00	p5288	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p5228	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.89	0.00	p5289	1.00	0.07	0.00	0.00	0.00	0.04	0.00	0.89	0.00	0.00
p5231	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.13	0.00	p5304	1.00	0.01	0.00	0.00	0.97	0.01	0.00	0.00	0.97	0.00
p5232	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5305	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p5233	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	p5306	1.00	0.01	0.00	0.00	0.00	0.92	0.00	0.06	0.01	0.00
p5234	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5310	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p5235	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5311	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p5236	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.00	p5312	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p5237	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p5313	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p5238	1.00	0.07	0.00	0.00	0.00	0.73	0.00	0.20	0.00	0.00	p5314	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00
p5239	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5315	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p5266	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	p5316	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p5267	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.13	0.00	p5317	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p5268	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.03	0.00	p5322	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
p5269	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	p5325	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
p5270	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	p5326	1.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.19	0.00
p5271	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p5327	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
p5272	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.73	0.00	p5328	1.00	0.01	0.00	0.00	0.05	0.94	0.00	0.00	0.97	0.00
p5273	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p5329	1.00	0.01	0.00	0.00	0.05	0.94	0.00	0.00	0.97	0.00
p5274	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	p5330	1.00	0.01	0.00	0.00	0.60	0.39	0.00	0.00	0.97	0.00
p5275	1.00	0.07	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00	p5331	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00
p5276	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p5332	1.00	0.01	0.00	0.00	0.98	0.01	0.00	0.00	0.97	0.00
p5277	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p5333	1.00	0.01	0.00	0.00	0.00	0.04	0.00	0.95	0.00	0.00



*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p5334	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00	p5550	1.00	0.03	0.00	0.00	0.00	0.00	0.97	0.00	0.00	
p5335	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p5551	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.06	0.00
p5336	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p5552	1.00	0.03	0.00	0.00	0.00	0.43	0.00	0.55	0.00	0.00
p5337	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.63	0.00	p5553	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.04	0.00
p5338	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00	p5554	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00
p5339	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p5555	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.05	0.00
p5340	1.00	0.00	0.01	0.00	0.00	0.99	0.00	0.00	0.97	0.00	p5556	1.00	0.02	0.00	0.00	0.00	0.82	0.00	0.16	0.00	0.00
p5341	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.99	0.00	p5557	1.00	0.02	0.00	0.00	0.00	0.17	0.00	0.81	0.00	0.00
p5342	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	p5558	1.00	0.02	0.00	0.00	0.02	0.95	0.00	0.00	0.05	0.00
p5345	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	p5559	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.29	0.00
p5346	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.82	0.00	p5560	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p5347	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p5561	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.15	0.00
p5348	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.90	0.00	p5562	1.00	0.02	0.01	0.00	0.96	0.01	0.00	0.00	0.95	0.00
p5349	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.98	0.00	p5563	1.00	0.03	0.00	0.00	0.13	0.84	0.00	0.00	0.95	0.00
p5350	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.01	0.00	0.00	p5564	1.00	0.03	0.00	0.00	0.97	0.00	0.00	0.00	0.95	0.00
p5351	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.06	0.00	p5565	1.00	0.03	0.00	0.00	0.97	0.00	0.00	0.00	0.95	0.00
p5352	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.32	0.00	p5566	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.16	0.00
p5353	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.62	0.00	p5571	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.63	0.00
p5354	1.00	0.01	0.00	0.00	0.00	0.76	0.00	0.23	0.00	0.00	p5572	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.01	0.00	0.00
p5355	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p5573	1.00	0.02	0.00	0.00	0.07	0.90	0.00	0.00	0.95	0.00
p5359	1.00	0.01	0.00	0.00	0.05	0.94	0.00	0.00	0.19	0.00	p5574	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p5360	1.00	0.01	0.00	0.00	0.04	0.94	0.00	0.00	0.97	0.00	p5575	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
p5361	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00	p5576	1.00	0.03	0.00	0.00	0.00	0.45	0.00	0.53	0.00	0.00
p5364	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p5577	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.29	0.00
p5365	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00	p5578	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
p5542	1.00	0.01	0.00	0.00	0.98	0.00	0.00	0.01	0.96	0.00	p5579	1.00	0.03	0.00	0.00	0.00	0.22	0.00	0.75	0.00	0.00
p5543	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.04	0.00	p5580	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
p5544	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p5581	1.00	0.03	0.00	0.00	0.00	0.89	0.00	0.08	0.00	0.00
p5545	1.00	0.02	0.00	0.00	0.82	0.16	0.00	0.00	0.00	0.00	p5582	1.00	0.02	0.01	0.00	0.00	0.93	0.00	0.05	0.00	0.00
p5546	1.00	0.02	0.00	0.00	0.25	0.71	0.00	0.02	0.00	0.00	p5583	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p5547	1.00	0.02	0.00	0.00	0.45	0.53	0.00	0.00	0.00	0.00	p5585	1.00	0.01	0.02	0.00	0.97	0.00	0.00	0.00	0.95	0.00
p5548	1.00	0.02	0.00	0.00	0.26	0.72	0.00	0.00	0.00	0.00	p5586	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.95	0.00
p5549	1.00	0.02	0.01	0.00	0.97	0.00	0.00	0.00	0.95	0.00	p5587	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.95	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p5610	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p1434	1.00	0.07	0.00	0.00	0.11	0.82	0.00	0.00	0.90	0.00
p806	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.96	0.00	p1435	1.00	0.02	0.06	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p1361	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p1440	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
p1392	1.00	0.07	0.00	0.00	0.00	0.01	0.00	0.92	0.00	0.00	p1441	1.00	0.02	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
p1393	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	p1442	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p1394	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p1443	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.07	0.00
p1395	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00	p1444	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p1396	1.00	0.07	0.00	0.00	0.10	0.82	0.00	0.00	0.90	0.00	p1445	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.08	0.00
p1397	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p1446	1.00	0.00	0.00	0.00	0.00	0.39	0.00	0.61	0.00	0.00
p1398	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.01	0.00	0.00	p1447	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p1399	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p1449	1.00	0.00	0.00	0.00	0.01	0.98	0.00	0.00	0.99	0.00
p1403	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	p1450	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.02	0.00
p1404	1.00	0.01	0.00	0.00	0.00	0.42	0.00	0.56	0.00	0.00	p1451	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
p1405	1.00	0.01	0.00	0.00	0.98	0.00	0.00	0.00	0.97	0.00	p1452	1.00	0.00	0.00	0.00	0.00	0.98	0.00	0.01	0.00	0.00
p1406	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	p1453	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
p1407	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p1454	1.00	0.06	0.00	0.00	0.02	0.00	0.00	0.93	0.00	0.00
p1410	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.97	0.00	p1456	1.00	0.07	0.00	0.00	0.92	0.00	0.00	0.00	0.90	0.00
p1411	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.31	0.00	p1457	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p1412	1.00	0.01	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00	p1458	1.00	0.07	0.00	0.00	0.03	0.90	0.00	0.00	0.90	0.00
p1413	1.00	0.02	0.06	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p1460	1.00	0.07	0.00	0.00	0.00	0.03	0.00	0.90	0.00	0.00
p1414	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p1461	1.00	0.05	0.02	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p1415	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.00	p1462	1.00	0.04	0.03	0.00	0.93	0.00	0.00	0.00	0.90	0.00
p1416	1.00	0.04	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00	p1463	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p1417	1.00	0.07	0.00	0.00	0.00	0.72	0.00	0.20	0.00	0.00	p1467	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.99	0.00
p1418	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.56	0.00	p1468	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p1419	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.99	0.00	p1469	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.80	0.00
p1420	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p1474	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00
p1421	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	p1475	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
p1426	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p1476	1.00	0.07	0.00	0.00	0.22	0.71	0.00	0.00	0.90	0.00
p1430	1.00	0.02	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	p1478	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.24	0.00
p1431	1.00	0.07	0.00	0.00	0.00	0.21	0.00	0.72	0.00	0.00	p1479	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00
p1432	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p1486	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.96	0.00
p1433	1.00	0.07	0.00	0.00	0.79	0.14	0.00	0.00	0.90	0.00	p1487	1.00	0.02	0.01	0.00	0.91	0.07	0.00	0.00	0.95	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p1488	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p1527	1.00	0.02	0.00	0.00	0.09	0.90	0.00	0.00	0.00	0.00
p1489	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p1528	1.00	0.02	0.00	0.00	0.40	0.59	0.00	0.00	0.00	0.00
p1490	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.89	0.00	p1529	1.00	0.02	0.00	0.00	0.11	0.87	0.00	0.00	0.00	0.00
p1491	1.00	0.01	0.00	0.00	0.00	0.96	0.00	0.03	0.89	0.00	p1530	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p1492	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.00	0.97	0.00	p1531	1.00	0.02	0.00	0.00	0.09	0.89	0.00	0.00	0.00	0.00
p1493	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.69	0.00	p1532	1.00	0.02	0.00	0.00	0.10	0.75	0.00	0.14	0.00	0.00
p1494	1.00	0.07	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	p1533	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.01	0.00	0.00
p1495	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p1534	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p1496	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p1535	1.00	0.02	0.00	0.00	0.10	0.88	0.00	0.01	0.00	0.00
p1497	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.90	0.00	p1536	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p1498	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.89	0.00	p1537	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p1499	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.30	0.00	p1538	1.00	0.01	0.00	0.00	0.10	0.88	0.00	0.01	0.00	0.00
p1500	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p1539	1.00	0.01	0.00	0.00	0.11	0.87	0.00	0.01	0.00	0.00
p1501	1.00	0.03	0.00	0.00	0.28	0.70	0.00	0.00	0.00	0.00	p1540	1.00	0.02	0.00	0.00	0.21	0.77	0.00	0.00	0.00	0.00
p1502	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	p1541	1.00	0.01	0.01	0.00	0.09	0.02	0.00	0.87	0.00	0.00
p1503	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	p1542	1.00	0.01	0.00	0.00	0.11	0.88	0.00	0.00	0.00	0.00
p1504	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	p1543	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p1509	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00	p1544	1.00	0.01	0.00	0.00	0.10	0.89	0.00	0.00	0.00	0.00
p1510	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00	p1545	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p1511	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p1546	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p1512	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.97	0.00	p1547	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p1515	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.99	0.00	p1548	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.27	0.00
p1516	1.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.03	0.00	p1549	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.60	0.00
p1517	1.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.91	0.00	p1550	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p1518	1.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.01	0.00	p1551	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.98	0.00
p1519	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.20	0.00	p1552	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
p1520	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	p1553	1.00	0.06	0.00	0.00	0.00	0.94	0.00	0.00	0.91	0.00
p1521	1.00	0.00	0.01	0.00	0.14	0.84	0.00	0.00	0.97	0.00	p1554	1.00	0.06	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00
p1522	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	p1555	1.00	0.06	0.00	0.00	0.00	0.94	0.00	0.00	0.05	0.00
p1523	1.00	0.01	0.00	0.00	0.00	0.97	0.00	0.02	0.94	0.00	p1556	1.00	0.06	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
p1524	1.00	0.01	0.02	0.00	0.00	0.97	0.00	0.00	0.95	0.00	p1557	1.00	0.06	0.00	0.00	0.00	0.94	0.00	0.00	0.91	0.00
p1525	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	p1558	1.00	0.07	0.00	0.00	0.03	0.90	0.00	0.00	0.55	0.00
p1526	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p1559	1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p1480	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3226	1.00	0.02	0.00	0.00	0.00	0.77	0.00	0.21	0.00	0.00
p1481	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3227	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
p1482	1.00	0.07	0.00	0.00	0.92	0.01	0.00	0.00	0.90	0.00	p3228	1.00	0.02	0.00	0.00	0.12	0.86	0.00	0.00	0.00	0.00
p1483	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.90	0.00	p3229	1.00	0.02	0.00	0.00	0.21	0.74	0.00	0.02	0.00	0.00
p188	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.31	0.00	p3230	1.00	0.02	0.00	0.00	0.22	0.76	0.00	0.00	0.00	0.00
p189	1.00	0.00	0.00	0.00	0.18	0.82	0.00	0.00	0.03	0.00	p3231	1.00	0.02	0.00	0.00	0.21	0.76	0.00	0.00	0.00	0.00
p190	1.00	0.00	0.00	0.00	0.19	0.81	0.00	0.00	0.00	0.00	p3232	1.00	0.02	0.00	0.00	0.21	0.75	0.00	0.02	0.00	0.00
p191	1.00	0.00	0.00	0.00	0.46	0.54	0.00	0.00	0.03	0.00	p3235	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p192	1.00	0.00	0.00	0.00	0.47	0.53	0.00	0.00	0.02	0.00	p3236	1.00	0.02	0.00	0.00	0.12	0.86	0.00	0.00	0.00	0.00
p193	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.05	0.00	p4771	1.00	0.00	0.01	0.00	0.87	0.12	0.00	0.00	0.03	0.00
p194	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.00	0.00	p4832	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
p195	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.02	0.00	p4833	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
p196	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.02	0.00	p4980	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p197	1.00	0.00	0.00	0.00	0.11	0.89	0.00	0.00	0.03	0.00	p4981	1.00	0.02	0.00	0.00	0.37	0.61	0.00	0.00	0.00	0.00
p198	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.03	0.00	p4982	1.00	0.02	0.00	0.00	0.10	0.88	0.00	0.00	0.00	0.00
p199	1.00	0.00	0.00	0.00	0.11	0.89	0.00	0.00	0.03	0.00	p494	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00
p200	1.00	0.00	0.00	0.00	0.26	0.74	0.00	0.00	0.03	0.00	p1438	1.00	0.01	0.01	0.00	0.00	0.97	0.00	0.00	0.79	0.00
p201	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p1513	1.00	0.03	0.00	0.00	0.00	0.20	0.00	0.77	0.00	0.00
p202	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p1514	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00
p203	1.00	0.01	0.00	0.00	0.11	0.86	0.00	0.01	0.00	0.00	p1560	1.00	0.01	0.01	0.00	0.72	0.26	0.00	0.00	0.01	0.00
p204	1.00	0.01	0.00	0.00	0.21	0.77	0.00	0.01	0.00	0.00	p1561	1.00	0.01	0.00	0.00	0.00	0.95	0.00	0.04	0.00	0.00
p205	1.00	0.01	0.00	0.00	0.97	0.00	0.00	0.02	0.00	0.00	p1484	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.57	0.00
p206	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.02	0.00	p1485	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.96	0.00
p207	1.00	0.01	0.00	0.00	0.46	0.49	0.00	0.04	0.00	0.00	p4837	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p208	1.00	0.01	0.00	0.00	0.98	0.01	0.00	0.00	0.00	0.00	p4838	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p209	1.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	p4839	1.00	0.02	0.00	0.00	0.00	0.01	0.00	0.97	0.00	0.00
p250	1.00	0.01	0.01	0.00	0.00	0.00	0.00	0.97	0.00	0.00	p4840	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.96	0.00
p251	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p4841	1.00	0.02	0.00	0.00	0.00	0.95	0.00	0.03	0.00	0.00
p252	1.00	0.03	0.57	0.00	0.40	0.00	0.00	0.00	0.83	0.00	p4842	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
p3222	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	p4845	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p3223	1.00	0.03	0.00	0.00	0.12	0.86	0.00	0.00	0.00	0.00	p4846	1.00	0.02	0.00	0.00	0.00	0.87	0.00	0.11	0.00	0.00
p3224	1.00	0.03	0.00	0.00	0.09	0.88	0.00	0.00	0.00	0.00	p4847	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
p3225	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	p4848	1.00	0.02	0.00	0.00	0.00	0.84	0.00	0.14	0.00	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p4849	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	p14	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p4850	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.95	0.00	p15	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p4851	1.00	0.02	0.00	0.00	0.00	0.86	0.00	0.12	0.00	0.00	p16	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p4852	1.00	0.02	0.00	0.00	0.00	0.37	0.00	0.61	0.00	0.00	p17	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.98	0.00
p4855	1.00	0.01	0.00	0.00	0.09	0.75	0.00	0.15	0.00	0.00	p18	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.98	0.00
p4858	1.00	0.01	0.00	0.00	0.00	0.20	0.00	0.79	0.00	0.00	p19	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p337	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p20	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p378	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p21	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p550	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	p22	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p1020	1.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	p23	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
p1326	1.00	0.01	0.00	0.00	0.09	0.90	0.00	0.00	0.00	0.00	p24	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p1437	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.05	0.00	p25	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p1439	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	p26	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p1505	1.00	0.02	0.00	0.00	0.00	0.97	0.00	0.00	0.04	0.00	p27	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p1506	1.00	0.03	0.00	0.00	0.00	0.08	0.00	0.89	0.00	0.00	p28	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p1507	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	p29	1.00	0.00	0.00	0.00	0.21	0.79	0.00	0.00	1.00	0.00
p1508	1.00	0.01	0.02	0.00	0.97	0.00	0.00	0.00	0.77	0.00	p30	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.84	0.00
p4859	1.00	0.01	0.00	0.00	0.00	0.35	0.00	0.64	0.00	0.00	p31	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
p4860	1.00	0.00	0.01	0.00	0.41	0.58	0.00	0.00	0.03	0.00	p32	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p397	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	p33	1.00	0.00	0.00	0.00	0.12	0.88	0.00	0.00	0.63	0.00
p1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	p34	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.05	0.00
p2	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p35	1.00	0.00	0.00	0.00	0.03	0.97	0.00	0.00	0.98	0.00
p3	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.11	0.00	p36	1.00	0.00	0.00	0.00	0.03	0.97	0.00	0.00	0.99	0.00
p4	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p37	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	1.00	0.00
p5	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p38	1.00	0.00	0.00	0.00	0.03	0.97	0.00	0.00	0.05	0.00
p6	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p39	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
p7	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p40	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
p8	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	p41	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p9	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	p42	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
p10	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p43	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
p11	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	p44	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
p12	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p45	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
p13	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p46	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p47	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	p102	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.99	0.00
p48	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p103	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
p49	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.98	0.00	p104	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p50	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.01	0.00	p105	1.00	0.00	0.00	0.00	0.31	0.69	0.00	0.00	1.00	0.00
p51	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p106	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.37	0.00
p52	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p107	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
p53	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	p108	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p54	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p109	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p55	1.00	0.00	0.00	0.00	0.07	0.93	0.00	0.00	0.00	0.00	p110	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p56	1.00	0.00	0.00	0.00	0.60	0.40	0.00	0.00	0.99	0.00	p111	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p57	1.00	0.00	0.00	0.00	0.06	0.94	0.00	0.00	0.98	0.00	p112	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p58	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p113	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p59	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p114	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p60	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p115	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p61	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.99	0.00	p116	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.01	0.00
p62	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	p117	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p63	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	p118	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.98	0.00
p64	1.00	0.00	0.00	0.00	0.80	0.20	0.00	0.00	1.00	0.00	p145	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p65	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p150	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	1.00	0.00
p66	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p151	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p67	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.99	0.00	p177	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p68	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p210	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p69	1.00	0.00	0.00	0.00	0.60	0.40	0.00	0.00	0.99	0.00	p211	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p70	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	p212	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p71	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p213	1.00	0.00	0.00	0.00	0.15	0.85	0.00	0.00	1.00	0.00
p72	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	p214	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
p73	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p234	1.00	0.00	0.00	0.00	0.16	0.84	0.00	0.00	1.00	0.00
p74	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.05	0.00	p235	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p75	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p236	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.02	0.00
p76	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	p237	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p85	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	p253	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p86	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.98	0.00	p254	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.99	0.00
p95	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.97	0.00	p255	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

p256	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p257	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.98	0.00
p258	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p259	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p260	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p261	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p262	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p263	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.03	0.00
p264	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p265	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p266	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p267	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p268	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p269	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p270	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p271	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p272	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p273	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p274	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p275	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p276	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p277	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.97	0.00
p278	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p279	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.09	0.00
p280	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p281	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p282	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p289	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	0.87	0.00
p297	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p303	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p313	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p314	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.01	0.00
p317	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00

p318	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.84	0.00
p323	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.76	0.00
p324	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p325	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.01	0.00
p336	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p338	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p339	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.01	0.00
p340	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p341	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.34	0.00
p342	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.33	0.00
p343	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.65	0.00
p344	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.33	0.00
p345	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p346	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p347	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.09	0.00
p348	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.94	0.00
p349	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.99	0.00
p350	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
p351	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
p352	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00

\*\*\*\*\*  
 Conduit Surcharge Summary  
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	----- Hours	Hours	-----	Capacity	
Conduit	Hours Full	Above Full	Upstream Dnstream	Normal Flow	Limited
p1806	0.01	0.01	23.16	0.01	0.01
p30	0.01	0.01	2.22	0.01	0.01

*DPR for The Construction of 5 MLD STP at Thiruvalla Municipality*

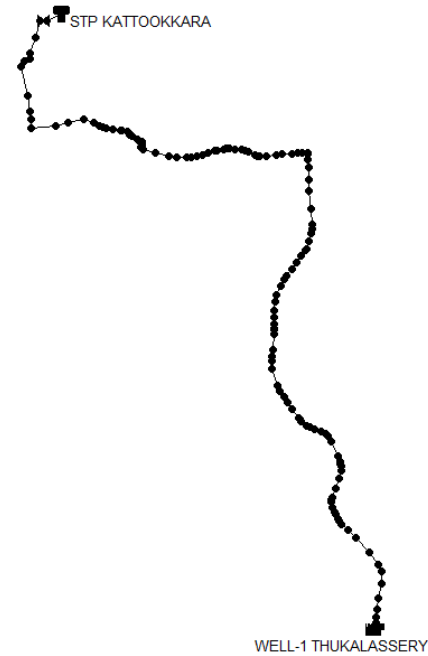
p107            0.01   0.01   1.81   0.01   0.01

Analysis ended on: Mon Dec 27 20:16:05 2021  
 Total elapsed time: 00:03:0

\*\*\*\*\*  
 Pumping Summary  
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EPANET Diagram of Pumping Main  
 From Thukalassery to STP(3524m)

Pump Curve Pump Low High	Percent Utilized	Min Number of Start-Ups	Avg	Max	Total	Power	% Time Off		
			Flow LPS	Flow LPS	Flow LPS	Volume 10^6 ltr	Usage Kw-hr		
1	95.31	1	0.00	5.58	9.00	0.436	10.79	0.0	100.0
2	97.44	1	0.00	5.80	9.25	0.460	5.09	0.0	100.0
3	97.94	1	0.00	5.66	9.00	0.451	4.55	0.0	100.0
4	97.57	1	0.00	8.67	15.00	0.686	10.33	0.0	100.0
5	99.18	1	0.00	2.61	5.29	0.207	1.18	0.0	100.0
6	89.46	1	0.00	1.44	2.80	0.106	3.04	0.0	100.0
7	89.52	1	0.00	1.16	2.28	0.085	1.01	0.0	100.0
8	94.39	1	0.00	3.92	7.79	0.301	2.54	0.0	100.0
9	99.50	1	0.00	4.30	8.68	0.343	4.59	0.0	100.0
10	97.37	1	0.00	8.04	15.00	0.634	5.75	0.0	100.0
11	99.57	1	0.00	6.60	10.00	0.532	5.47	0.0	100.0

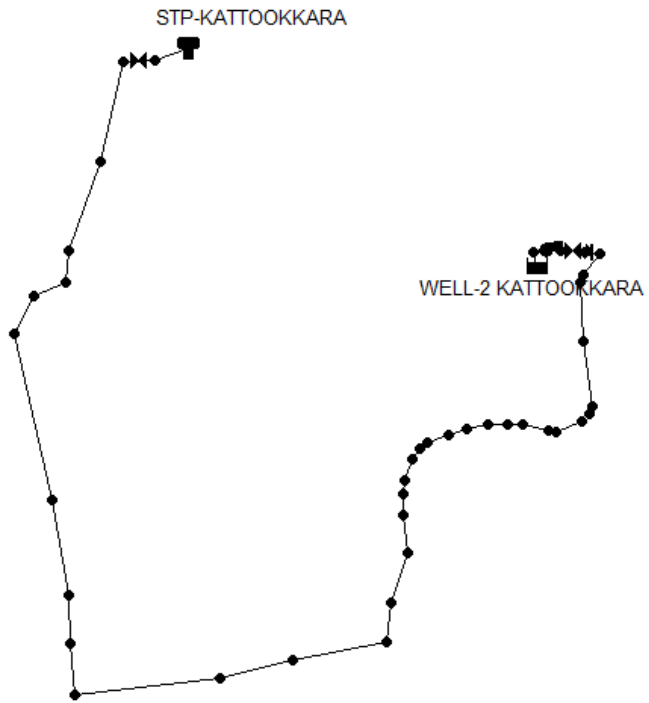


Analysis begun on: Mon Dec 27 20:13:03 2021



DPR for The Construction of 5 MLD STP at Thiruvalla Municipality

EPANET Diagram of Pumping Main Kattookkara Well to STP (813m)



EPANET Diagram of Pumping Main From Chandakkadavu to STP (1462m)

