

SBM – 2.0

PREPARATION OF DER FOR SEWERAGE FOR ULBs



SEWERAGE, PPD & WASCON - DETAILS OF OFFICES



1

SEWERAGE CIRCLE, THIRUVANATHAPURAM

2

SEWERAGE CIRCLE, KOCHI

3

SEWERAGE CIRCLE, TRICHUR

4

SEWERAGE CIRCLE, KOZHIKODE

SBM 2.0 - DER FOR MUNICIPALITIES

T
V
M

1

TRIVANDRUM

- NEYATTINKARA
- VARKALA

2

KOLLAM

- KOTTARAKKARA
- PARAVOOR

3

PATHANAMTHITA

- PANDALAM
- THIRUVALLA

4

ALLAPUZHA

- ALLAPUZHA
- CHERTHALA

5

KOTTAYAM

- ETTUMANOOR
- EARATTUPETTA

6

IDUKKI

- THODUPUZHA
- KATTAPPANA

7

ERNAKULAM

- KOCHI
- ALUVA

8

THRISSUR

- THRISSUR
- WADAKKANCHERY

9

PALAKKAD

- PALAKKAD
- PATTAMBI

10

MALAPPURAM

- MALAPPURAM
- PONNANI

11

KOZHIKODE

- VATAKARA
- KOYILANDY

12

WYANAD

- SULTHAN BATHERI
- MANANTHAVADI

13

KANNUR

- PAYYANNUR
- THALASSERY

14

KASARGOD

- KASARAGOD
- KANHANGAD

T
C
R

K
Z
D

1.Reconnaissance Survey.



3. Digitalization with levels from Google Earth



7.6.21

5.Topographical Survey of salient/control points and social surveying.

7.8.21

7. Detailed Estimate

7.10.21

DER PROGRESS PLAN

%age progress

10%

15%

25%

40%

60%

80%

90%

100%

2. Preliminary Engineering Report

15.4.21

4. Preliminary design using GIS data with SWMM



7.7.21



6.Final Design with SWMM and preparation of drawing

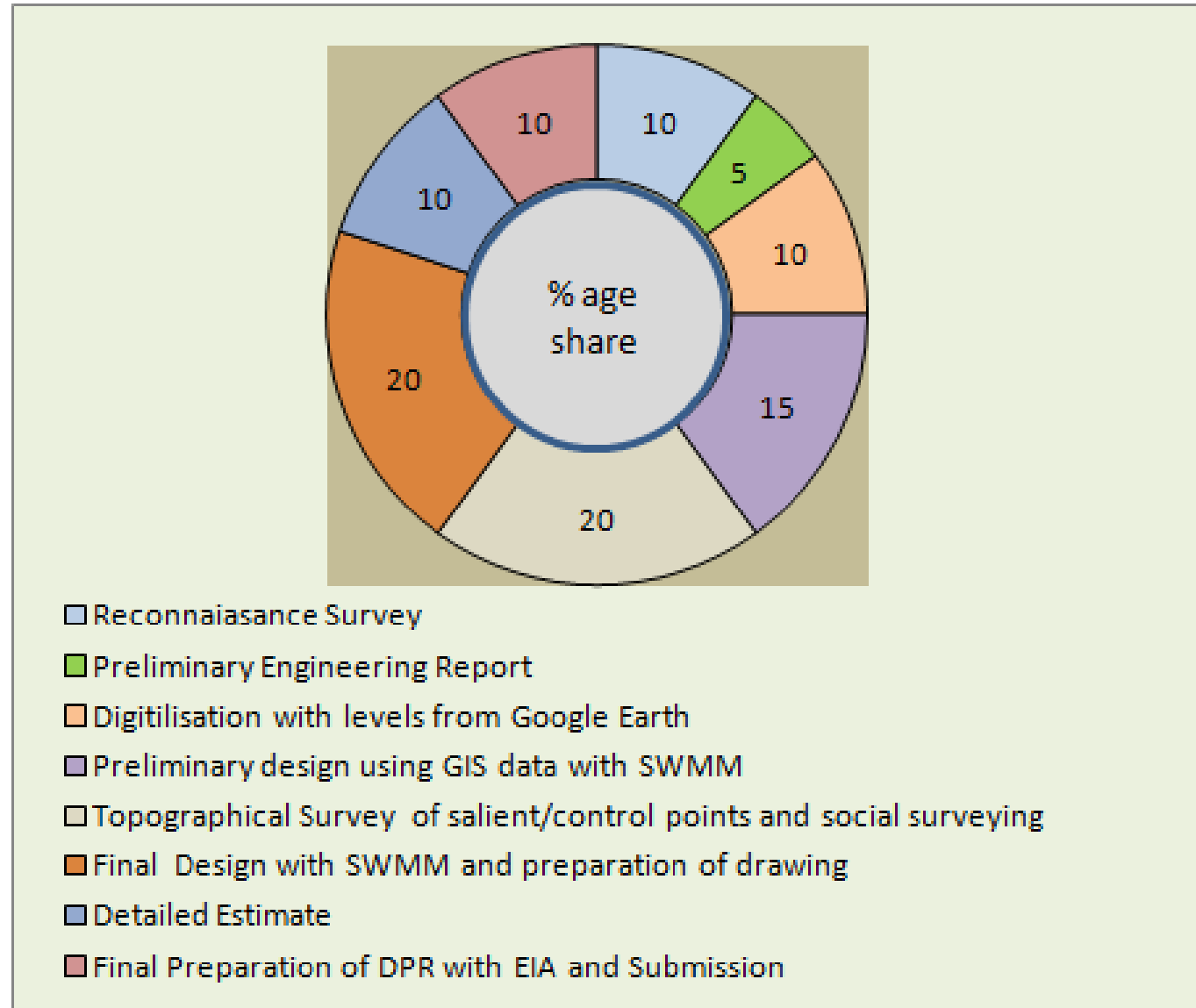
15.9.21

8.Final Preparation of DPR with EIA

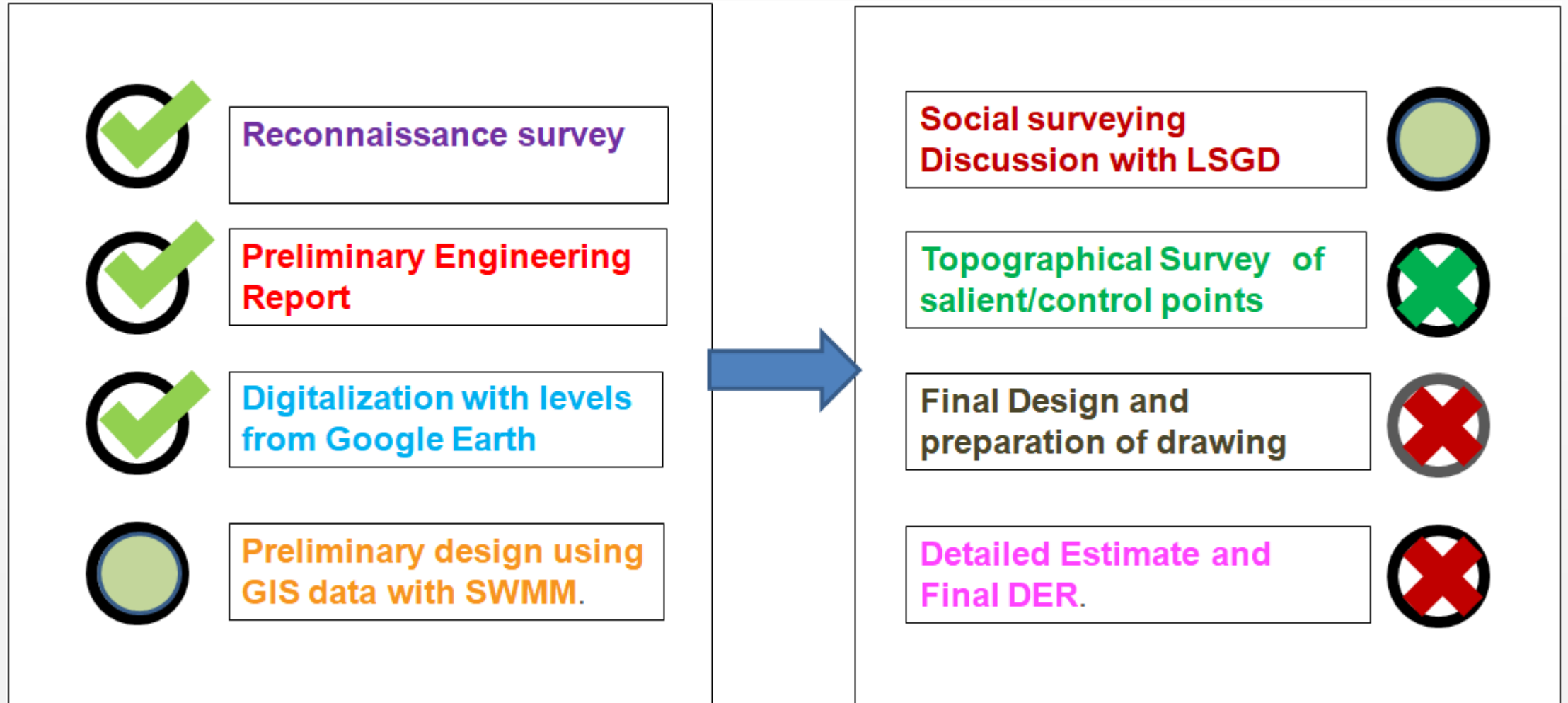
31.10.21



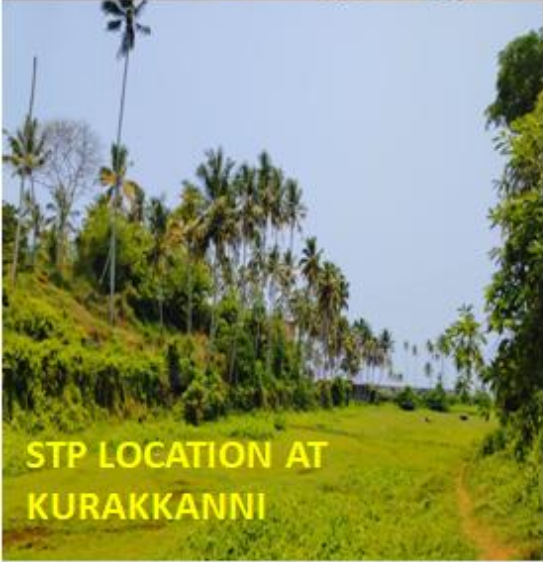
%age Time Share Of Various Activities



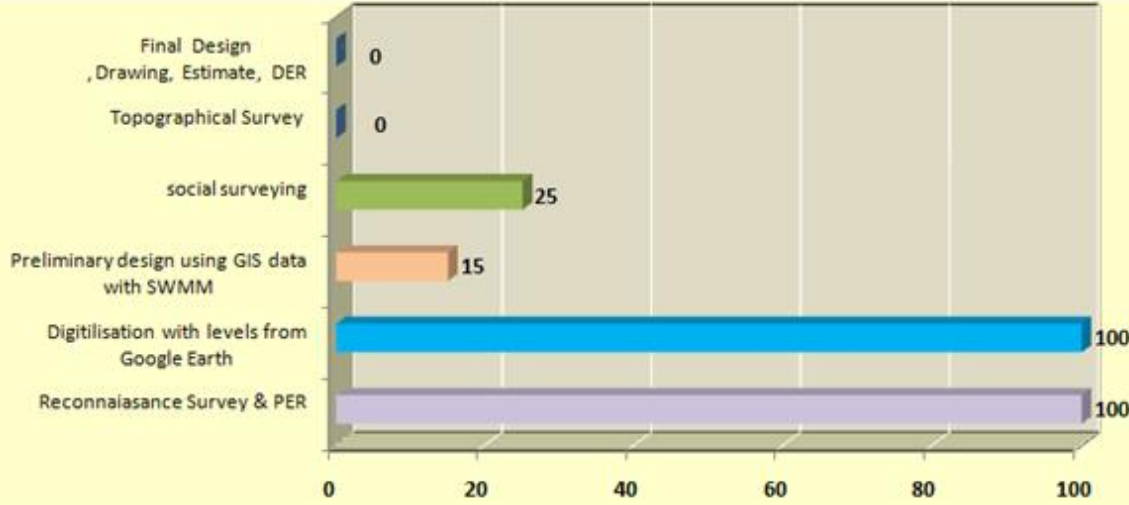
PROGRESS CHART – DER PREPARATION



TRIVANDRUM - VARKALA



STP LOCATION AT KURAKKANNI



SALIENT FEATURES

Projected Population 2054	66950
Total Networked Area	18.53 Sqkm
Total length of Sewerage Network	98.98km
Number of Zones	4
Number of STP	4
Total capacity of STP	11 mld
Number of Collection wells	3
Total Project Cost	Rs.539.97 crores

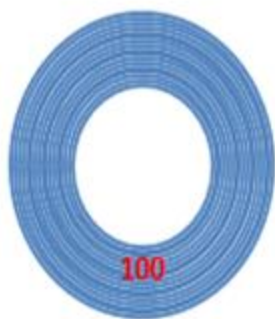
Details of Land Required for STP's & Collection Well at Varkala Municipality

Sl No		STP/ Collection Well in Zonewise	Capacity of STP	Name of Place	Nature of Land	Land Required in Hectare	Land Availability	Ownership
Zone 1	a	STP	3	Pullanikode Ward No. 5	Paddy	0.45	Sufficient	Private
	b	Collection Well		Nadayara Bridge (Near)	Dry Land	0.02	30 cent	Private
Zone 2	a	STP	2	Nadayara	Paddy	0.3	Sufficient	Private
	b	Collection Well		Thoduve (Near Sivagiri)	Dry Land	0.02	Sufficient	KWA Property
Zone 3	a	STP	5	Kurakkanni	Paddy	0.75	Sufficient	Private
	b	Collection Well		Backside of Thiruvambadi Aquarium	Paddy	0.02	Sufficient	Private
Zone 4	a	STP	1	Panayil Chira	Chira	0.15	Sufficient	Municipality

OCTOBER 2021						
MON	TUE	WED	THU	FRI	SAT	SUN
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4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31



PATHANAMTHITTA - PANDALAM



Reconnaissance
Survey, PER,
Digitilisation



Preliminary design
using GIS data with
SWMM



Social Surveying

SALIENT FEATURES

Projected Population 2054 107253

Total Networked Area 16.5 km²

Total length of Sewerage
Network 270 km

Number of Zones 1

Number of STP 1

Total capacity of STP 16.5 mld

Number of Collection wells 3

Total Project Cost Rs.1391 crores

Details of Land Required for STP's & Collection Well at Pandalam Municipality

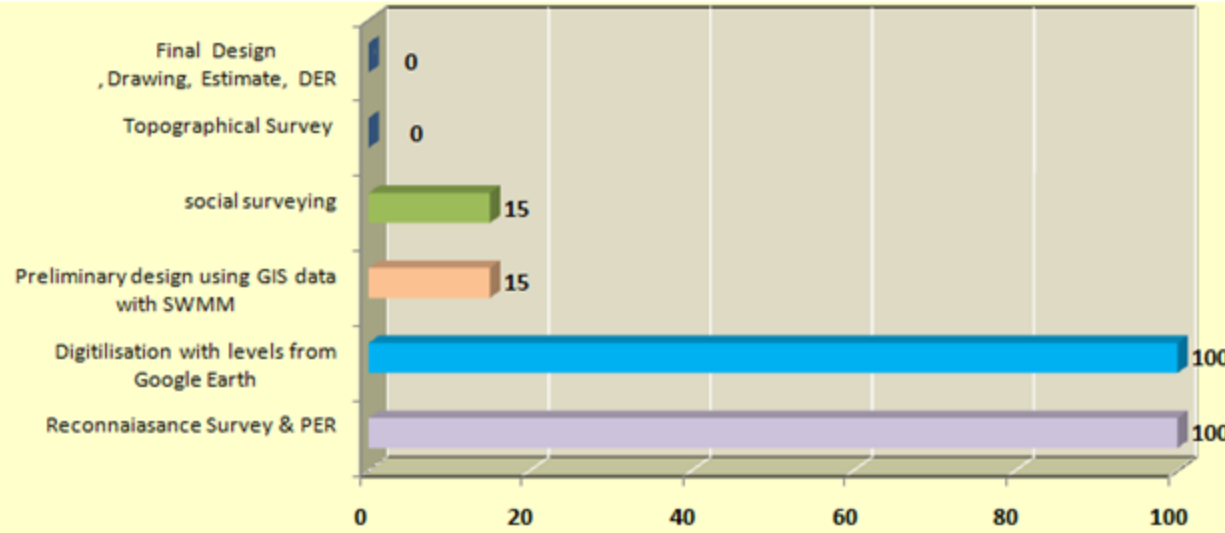
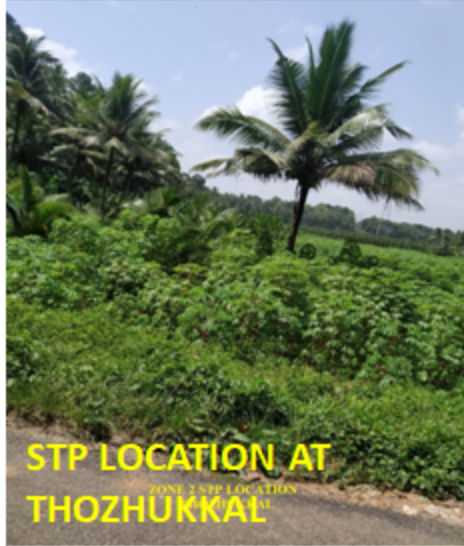
Sl No		STP/ Collection Well in Zonewise	Capacity of STP	Name of Place	Nature of Land	Land Required	Land Availability	Ownership
Zone 1	a	STP	16.5 mld	Mannam Sugar Mills	Dry Land	2.48	Sufficient	Private
	b	Collection Well 1		Ayranikudi	Dry Land	0.02	Sufficient	Private
		Collection Well 2		Mangaram	Dry Land	0.02	Sufficient	Private
		Collection Well 3		Kadakkadu	Paddy	0.02	Sufficient	Private

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TRIVANDRUM - NEYATTINKARA



SALIENT FEATURES

Projected Population 2054	99,405
Total Networked Area	27.55 Sqkm
Total length of Sewerage Network	189.98km
Number of Zones	3
Number of STP	3
Total capacity of STP	16 mld
Number of Collection wells	7
Total Project Cost	Rs.1029.2 crores

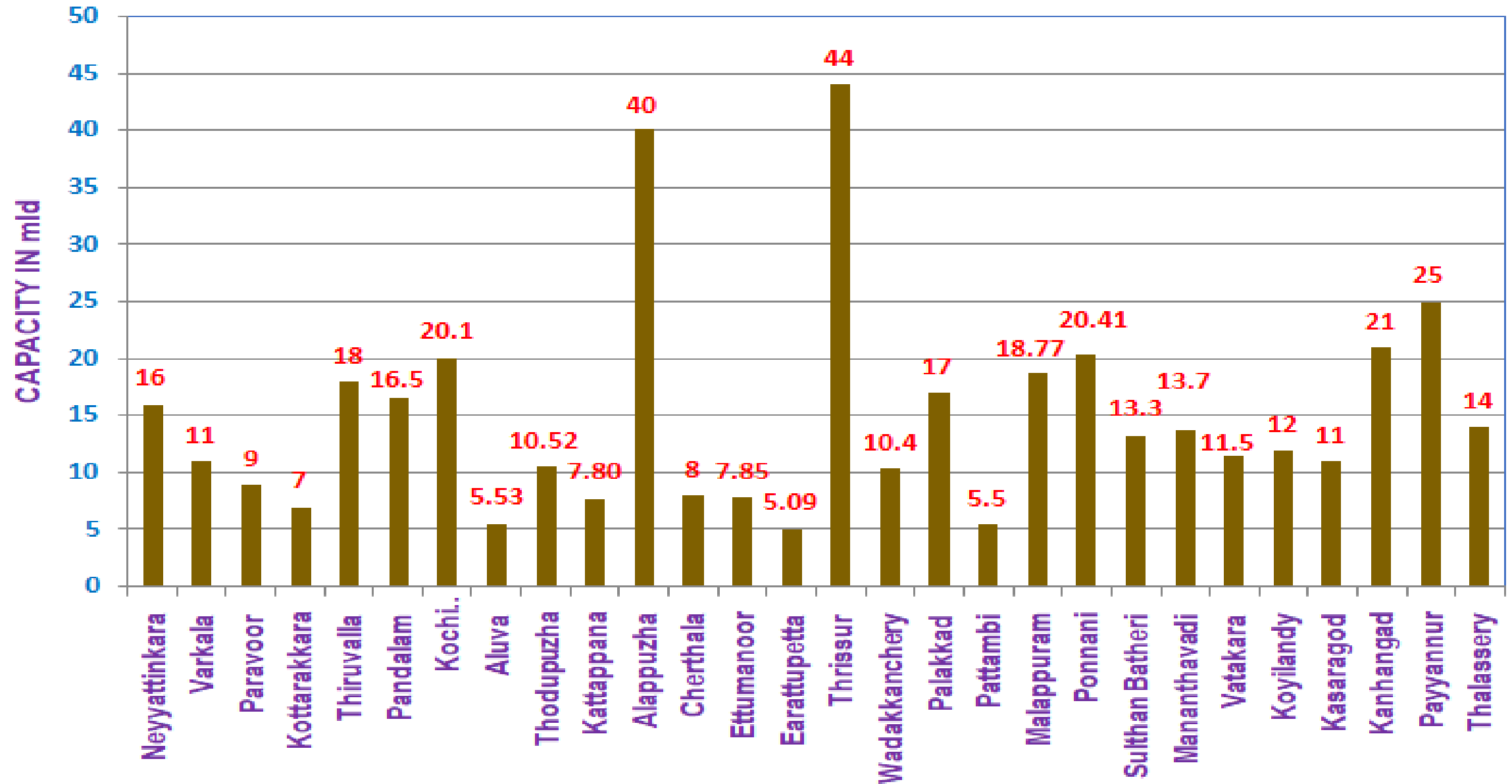
Details of Land Required for STP's & Collection Well at Neyyattinkara Municipality

Sl No		STP/ Collection Well in Zonewise	Capacity of STP (mld)	Name of Place	Nature of Land	Land Required in hectare	Land Availability	Ownership
Zone 1	a	STP	3	Vembazhikkara Pond	Paddy	0.45	Sufficient	Private
	b	Collection Well		Punnakkadu-Aralumoodu	Paddy	0.02	Sufficient	Private
Zone 2	a	STP	4	Thozhukkal	Paddy	0.6	Sufficient	Private
	b	Collection Well 1		Mampuzhakkara	Paddy	0.02	Sufficient	Private
		Collection Well 2		Kallupadam	Paddy	0.02	Sufficient	Private
Zone 3	a	STP	9	Mampuzhakkara	Paddy	1.35	Sufficient	Private
	b	Collection Well 1		Koottappara	Paddy	0.02	Sufficient	Private
		Collection Well 2		Moonnukallinmoodu	Paddy	0.02	Sufficient	Private
		Collection Well 3		Amaravila Perumkadavila	Paddy	0.02	Sufficient	Private
		Collection Well 4		Olathanni	Dry Land	0.02	Sufficient	Private

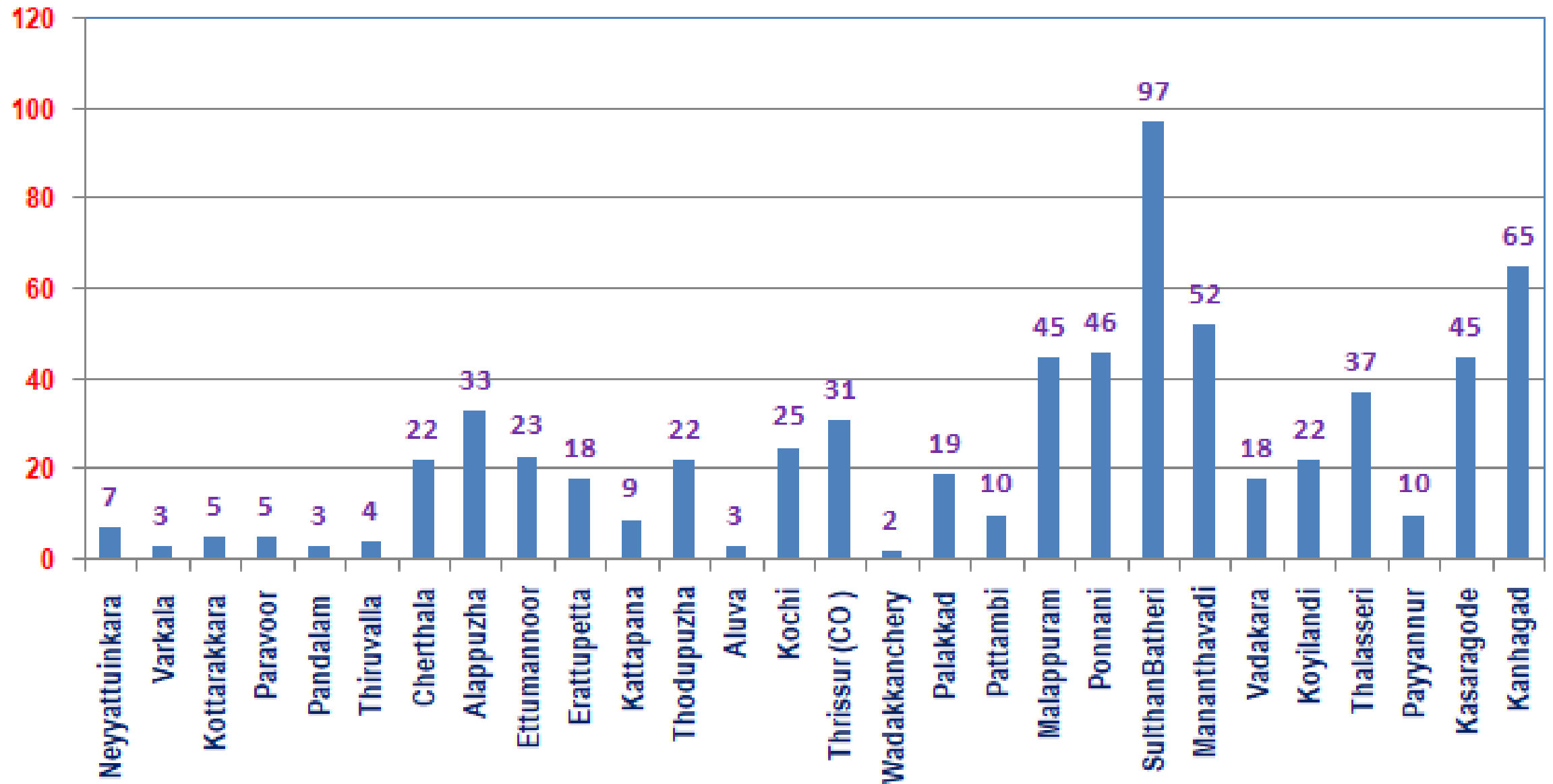
OCTOBER 2021

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STP CAPACITY REQUIRED IN VARIOUS MUNICIPALITIES



NUMBER OF COLLECTION WELL / LIFT STATION



SUGGESTIONS / ACTIONS IN PROGRESS

- HIGH END COMPUTERS / LAPTOPS (10 Nos) REQUIRED
- DGPS SURVEY OF CONTROL POINTS TO BE OUTSOURCED
- AE, KASARGOD TO BE POSTED
- MORE TRAINING SESSION / AWARENESS REQUIRED
 - CHOICE OF APPROPRIATE TECHNOLOGY AND DESIGN OF STP
 - PREPARATION OF EIA

Thank you

