

# Tamilnadu Water Supply and Drainage Board

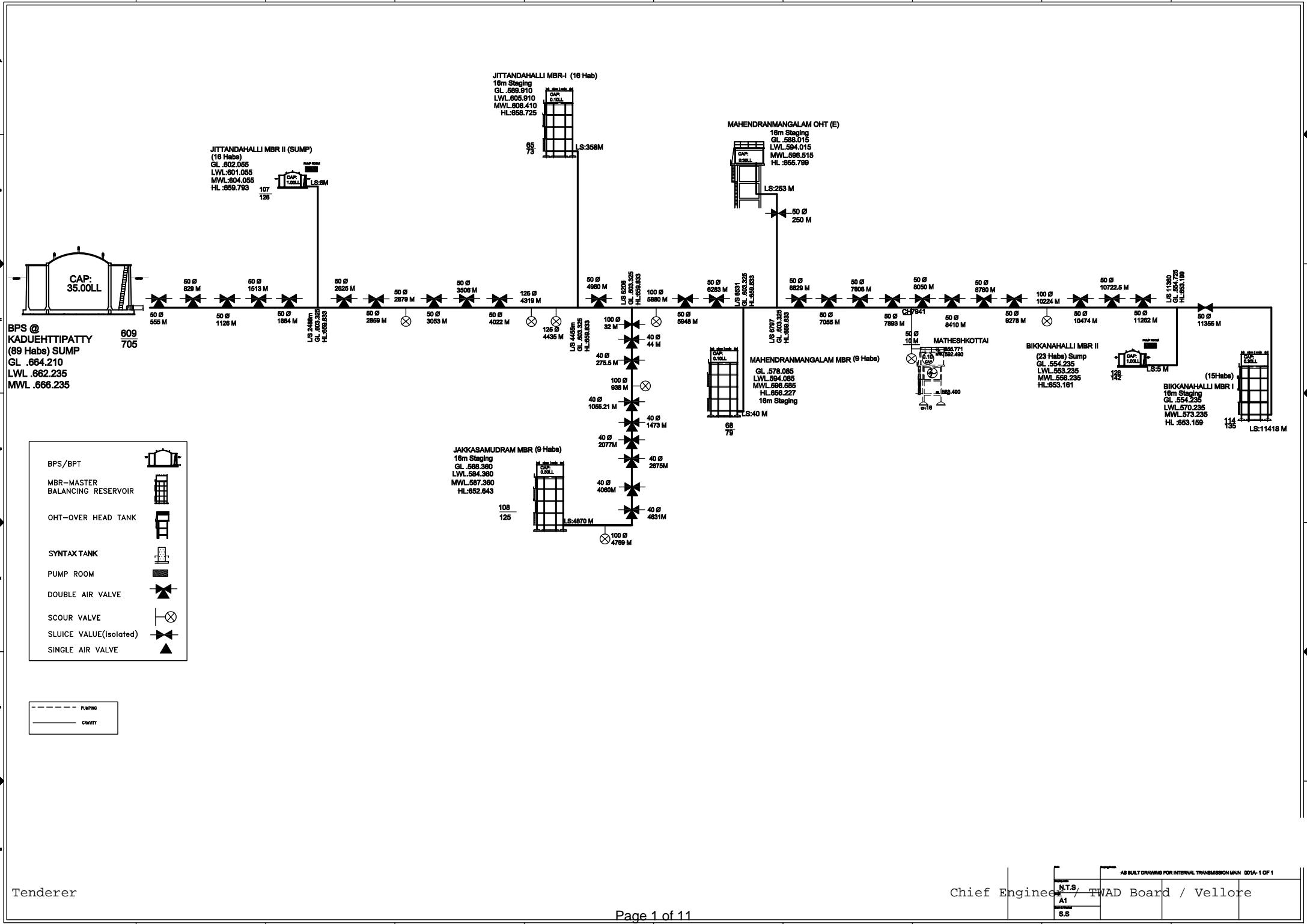
Hogenakkal Water Supply and Fluorosis Mitigation Project

Package - IV



**Volume: 6**

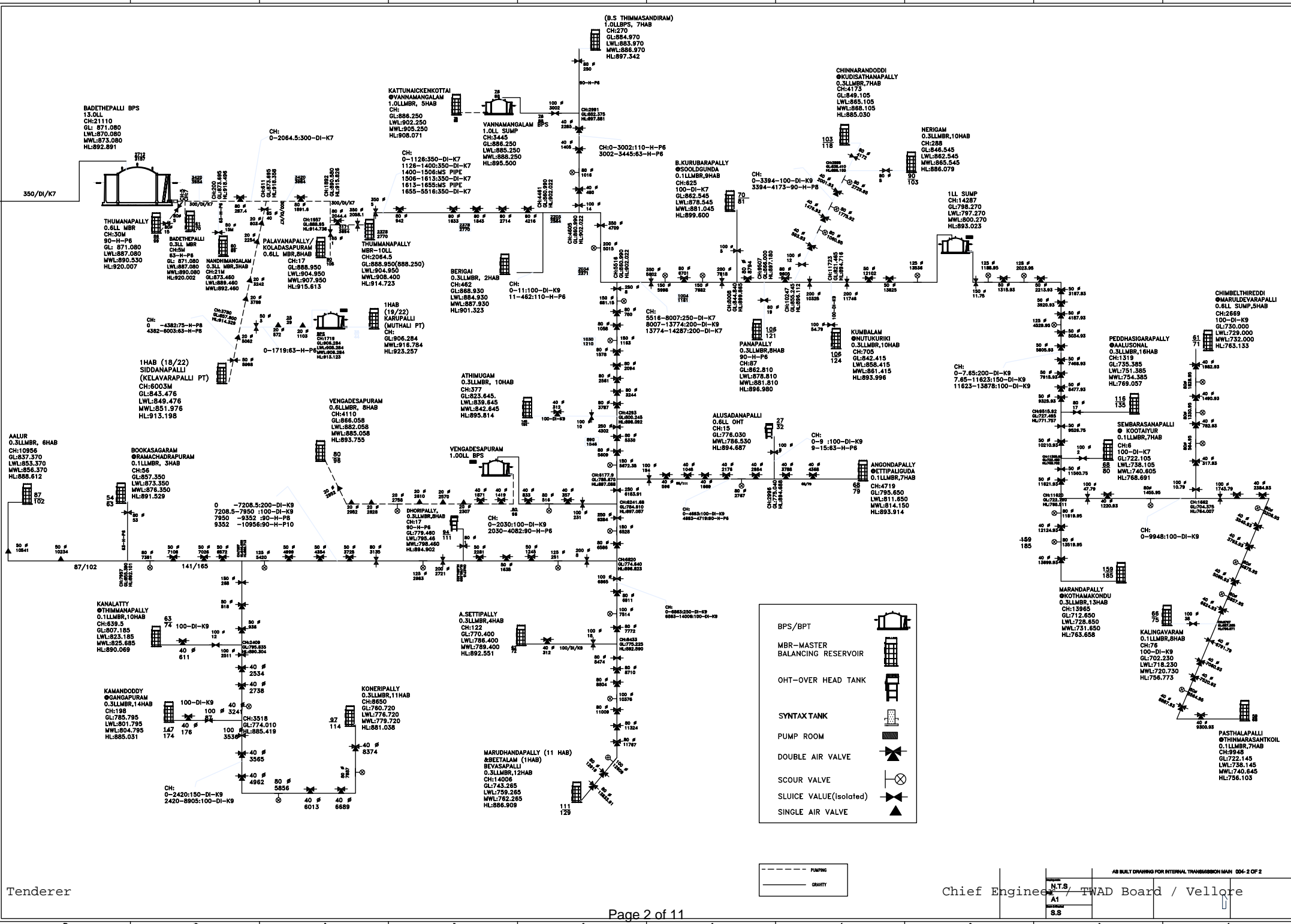
**Drawings**



Tenderer

Chief Engineer / TWAD Board / Vellore

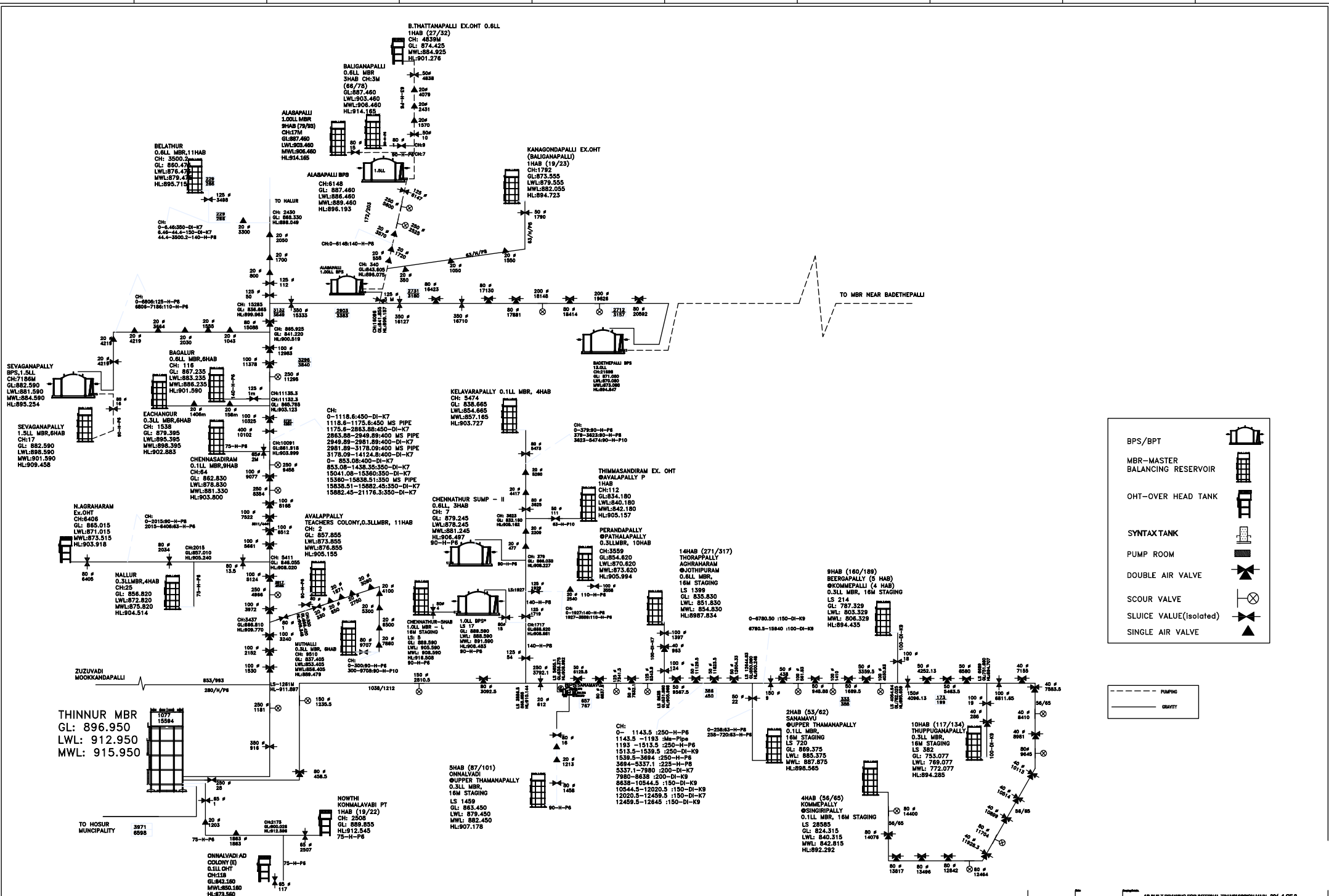
AS BUILT DRAWING FOR INTERNAL TRANSMISSION MAIN	001A-1 OF 1
N.T.S	
A1	
S.S	



Tenderer

Chief Engineer / TWAD Board / Vellore

N.T.S	AS BUILT DRAWING FOR INTERNAL TRANSMISSION MAIN DA-2 OF 2
A1	
S.S	



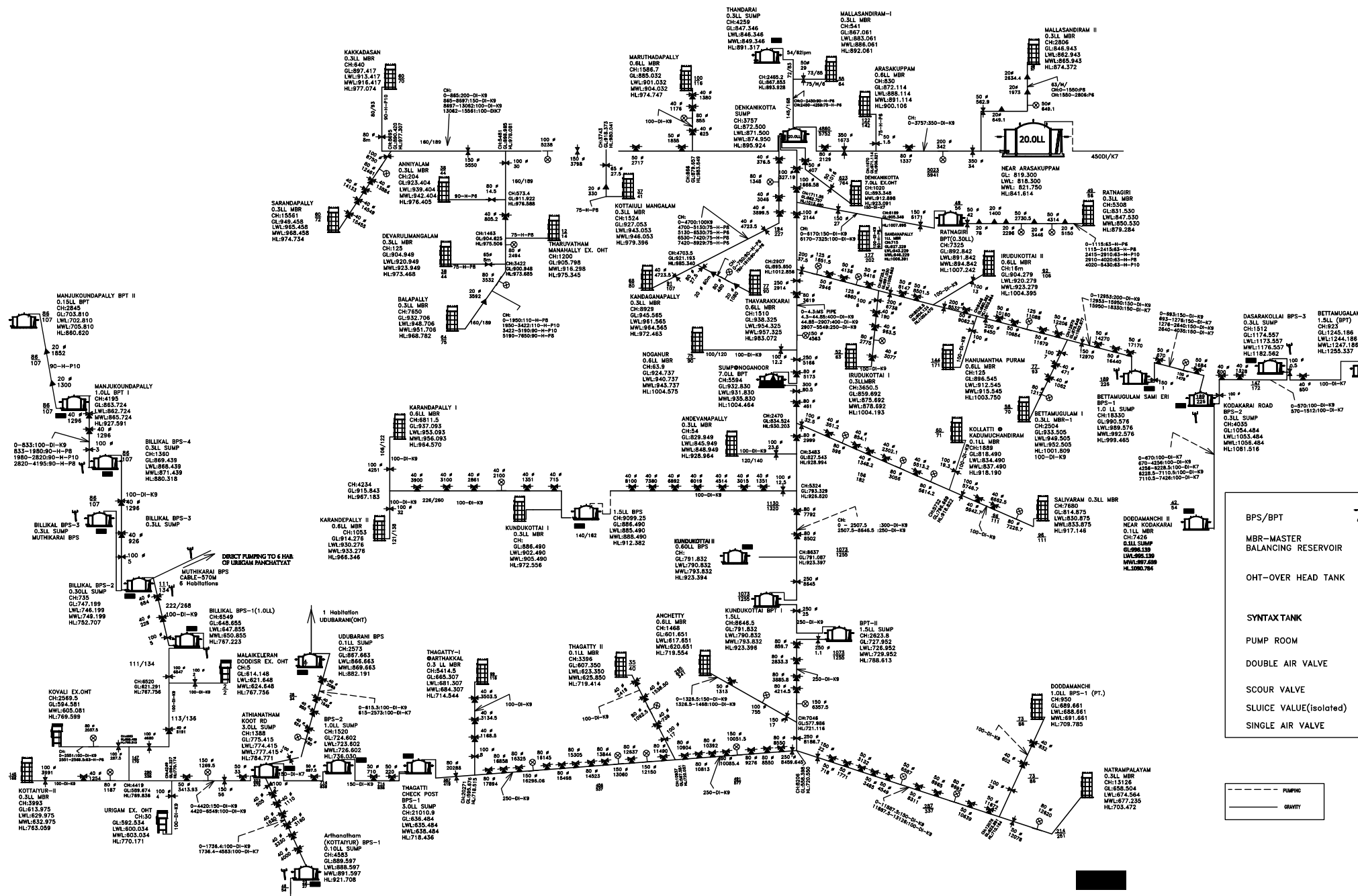
- BPS/BPT
- MBR-MASTER  
BALANCING RESERVOIR
- OHT-OVER HEAD TANK
- SYNTAX TANK
- PUMP ROOM
- DOUBLE AIR VALVE
- SCOUR VALVE
- SLUICE VALVE(isolated)
- SINGLE AIR VALVE

--- PUMPING  
--- GRAVITY

Tenderer

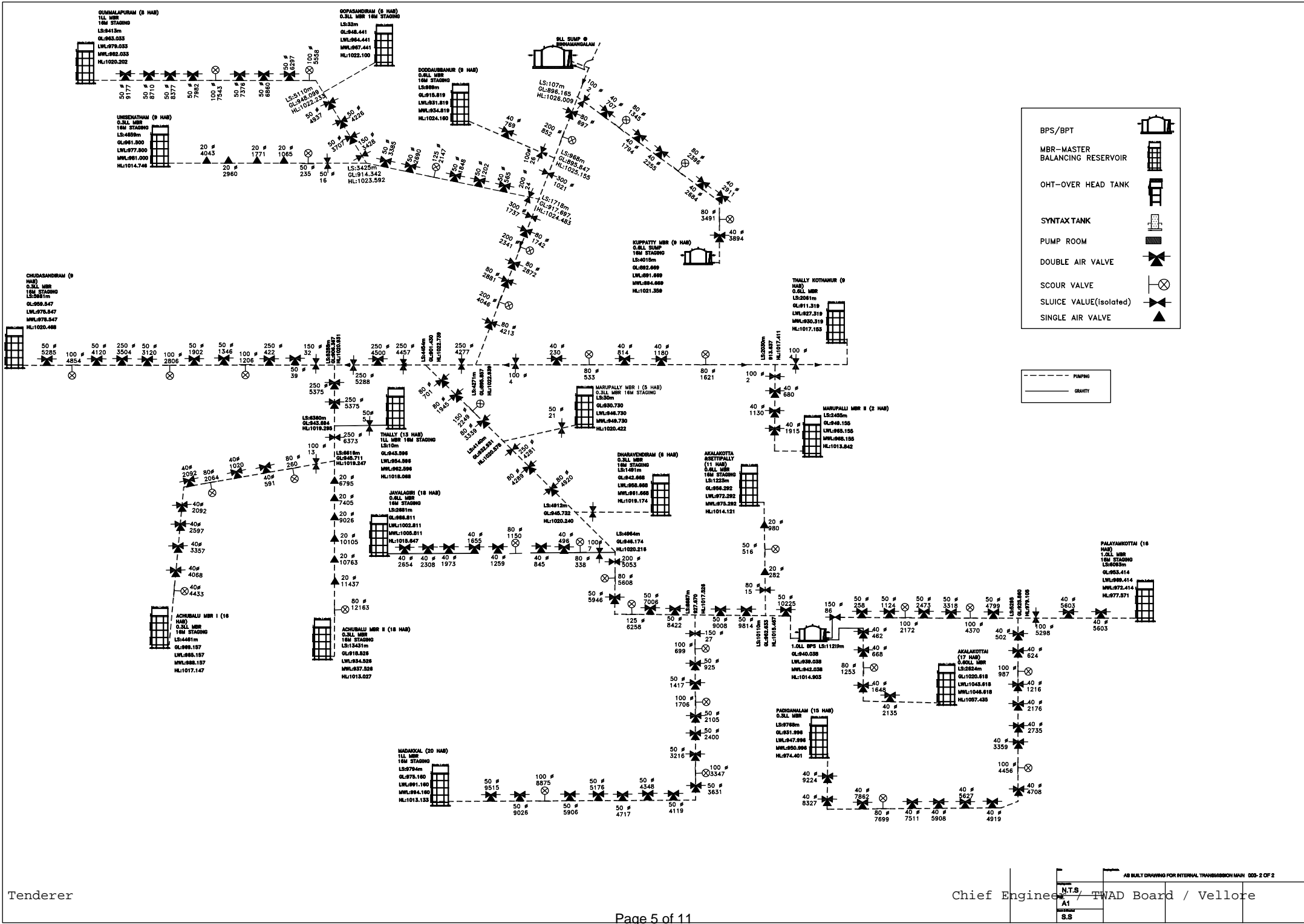
Chief Engineer / TWAD Board / Vellore

N.T.S	AS BUILT DRAWING FOR INTERNAL TRANSMISSION MAIN	004-1 OF 2
A1		
S.S		

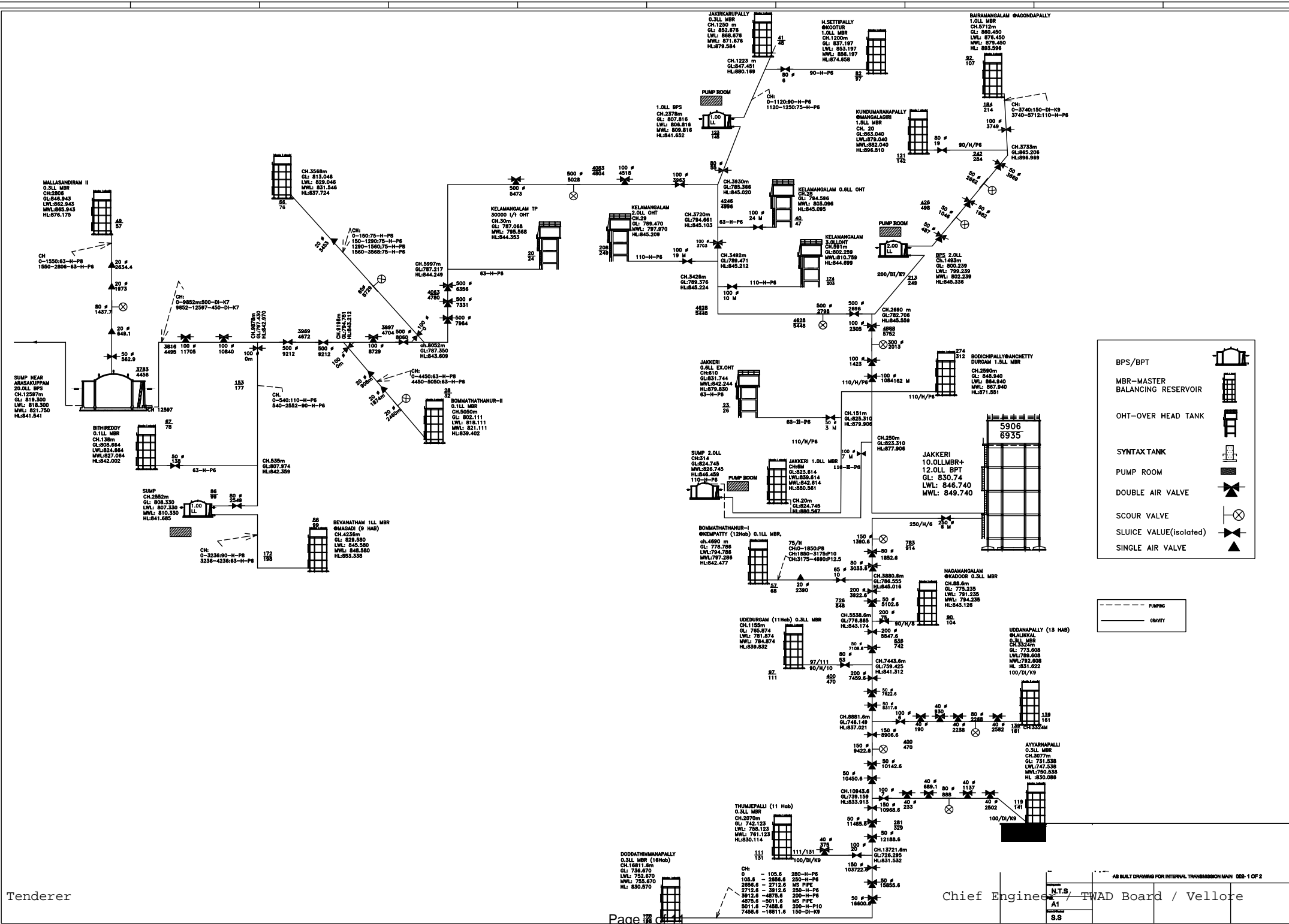


- BPS/BPT
- MBR-MASTER
- BALANCING RESERVOIR
- OHT-OVER HEAD TANK
- SYNTAX TANK
- PUMP ROOM
- DOUBLE AIR VALVE
- SCOUR VALVE
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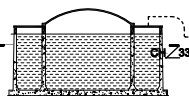




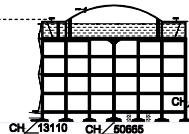




**TP-3**  
 Union : Hosur & Thally  
 Panchayat : 36 Nos  
 Habitations : 327 Nos



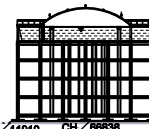
**BPS - MATHAGIRI**  
 CAP : 8LL + 7LL  
 GL : :889.590  
 LWL : :885.980  
 MWL : :890.980  
 Pump Type :VT  
 RATING : :90KW / 121HP  
 DISCHARGE : :225 M3/Hr  
 LPM : :3755  
 HEAD : :90.00 Mtrs



**BPT & MBR - JAKKERI**  
 CAP(MBR)(I) :10.00 LL  
 CAP(BPT)(O) :12.00 LL  
 GL : :830.740  
 LWL : :846.740  
 MWL : :849.740

**(BPT) TP-3&4**  
 Union : Thally, Hosur & Shoolagiri  
 Panchayat : 88 Nos  
 Habitations : 828 Nos  
**(MBR) TP-2**  
 Union : Thally & Kelamangalam  
 Panchayat : 46 Nos  
 Habitations : 555 Nos

**TP-4**  
 Union : Hosur & Shoolagiri  
 Panchayat : 52 Nos  
 Habitations : 501 Nos



**MBR - THINNUR**  
 CAP : :20.00 LL  
 GL : :896.950  
 LWL : :912.950  
 MWL : :915.950

Union	Number of Panchayat	Number of Habitations
Kelamangalam (Part)	5	100
Hosur	26	230
Shoolagiri	42	430
Thally	50	574
Kelamangalam	26	332
Veppanapalli	27	257
<b>Total</b>	<b>178</b>	<b>1923</b>

850mm dia - 600mm dia MS Pipe - 66.398 Km  
 500mm dia - 100mm dia DI Pipe - 722.730Km  
 315mm dia - 63mm dia HDPE Pipe - 2406.582 Km  
 Master Balancing Reservoir - 178 Nos  
 Break Pressure Tank - 29 Nos  
 Booster Pumping Station with Sump - 128 Nos  
 Over Head Tanks - 49 Nos

Estimate Cost Rs.433.04 Crores  
 Technical Sanction - CER No: 02 / 2010-11, Dt. 19.08.2010  
 Proposed Daily Water Supply- Intermediate - (2021)- 345.66 Lakh Liters.  
 Ultimate - (2036) - 457.53 Lakh Liters

LS	Length 'm'	850mm Dia MS 8mm Thick	850mm Dia MS 7mm Thick	750mm Dia MS 8mm Thick	750mm Dia MS 7mm Thick	700mm Dia MS 7mm Thick	700mm Dia MS 6mm Thick	600mm Dia MS 6mm Thick	Total
From To									
Noolgipatti BPS to Mahendras mangalam BPS (Pumping)									
0 6930	6930	6930							6930
6930 16805	9875		9875						9875
Mahendras mangalam BPS to Kaduchettipatti BPS (Pumping)									
0 1800	1800	1800							1800
1800 5850	4050		4050						4050
Kaduchettipatti BPS to Ulukurukkal BPS (Pumping)									
0 14300	14300				14300				14300
Ulukurukkal BPS to Jakkeri BPT (Pumping)									
0 5970	5970			5970					5970
5970 13110	7140				7140				7140
Jakkeri BPT to Kundamaranahalli BPS V (Gravity)									
0 4863	4863						4863		4863
Kundamaranahalli BPS to (Hosur) Thinnur MBR (Pumping)									
0 2280	2280					2280			2280
2280 10110	7830						7830		7830
10110 11910	1800							1800	1800
<b>Total:-</b>	<b>66835</b>	<b>8730</b>	<b>13925</b>	<b>5970</b>	<b>21440</b>	<b>2280</b>	<b>12693</b>	<b>1800</b>	<b>66835</b>
Kaduchettipatti BPS to Rayakota MBR (Pumping)- Feeder main									
0 2730	2730					2730			2730
2730 4510	1780						1780		1780
Branch to Mathagiri BPS (Pumping)- Feeder main									
0 330	330						330		330
<b>Total:-</b>						<b>2730</b>	<b>4110</b>		<b>6840</b>

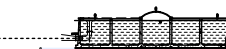
**BPS - Ullukurukkal**  
 CAP : :30.00 LL  
 GL : :741.285  
 LWL : :739.480  
 MWL : :743.480  
 Pump Type :VT  
 RATING : :400KW / 538HP  
 DISCHARGE : :824 M3/Hr  
 LPM : :13741  
 HEAD : :128.18 Mtrs



**TP-2,3&4**  
 Union : Kelamangalam  
 Panchayat : Thally, Hosur & Shoolagiri  
 Habitations : 134 Nos

**TP-3&4**  
 Union : Thally, Hosur & Shoolagiri  
 Panchayat : 88 Nos  
 Habitations : 828 Nos

**BPS - KUNDUMARANAHALLI**  
 CAP : :20.00 LL  
 GL : :812.035  
 LWL : :810.210  
 MWL : :814.210  
 Pump Type :VT  
 RATING : :300KW / 402HP  
 DISCHARGE : :356 M3/Hr  
 LPM : :5941  
 HEAD : :90.00 Mtrs



**NOTES**  
 GRAVITY LINE  
 PUMPING LINE  
 DOUBLE AIR VALVE  
 SLUICE VALVE  
 SCOUR VALVE  
 BUTTERFLY VALVE

84 NOS  
 04 NOS  
 38 NOS  
 28 NOS  
 SINGLE AIR VALVE  
 DOUBLE AIR VALVE  
 FLOW SYMBOL  
 BUTTERFLY VALVE

Chief Engineer  
 TWAD Board / Vellore  
 AS BUILT DRAWING FOR TULAKMAN  
 PART 2 OF 2  
 N.T.S  
 A1  
 R.P.G

LS	Length "m"	850mm Dia MS 8mm Thick	850mm Dia MS 7mm Thick	750mm Dia MS 8mm Thick	750mm Dia MS 7mm Thick	700mm Dia MS 7mm Thick	700mm Dia MS 6mm Thick	600mm Dia MS 6mm Thick	Total
From	To								
Kongipatti BPS to Mahendramangalam BPS (Pumping)									
0	6930	6930	6930						6930
6930	16805	9875		9875					9875
Mahendramangalam BPS to Kaduchettipatti BPS (Pumping)									
0	1800	1800	1800						1800
1800	5850	4050		4050					4050
Kaduchettipatti BPS to Uthukurukkal BPS (Pumping)									
0	14300	14300			14300				14300
Uthukurukkal BPS to Jakkeri BPS (Pumping)									
0	5970	5970			5970				5970
5970	13110	7140			7140				7140
Jakkeri BPS to Kundammanahalli BPS V (Gravity)									
0	4863	4863				4863			4863
Kundammanahalli BPS to (Hosur) Thalur MBR (Pumping)									
0	2280	2280				2280			2280
2280	10110	7830				7830			7830
10110	11910	1800					1800		1800
Total:-		66838	8730	13925	5970	21440	2280	12693	66838

Kaduchettipatti BPS to Rayakottai MBR (Pumping)- Feeder main									
0	2730	2730				2730			2730
2730	6510	3780					3780		3780
Branch to Mathagiri BPS (Pumping)- Feeder main									
0	330	330					330		330
Total:-						2730	4110		6840

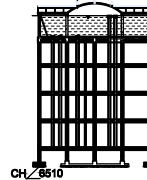
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Hosur	26	230
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Kelamangalam	28	332
Veppanapalli	27	257
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Master Balancing Reservoir - 178 Nos  
Break Pressure Tank - 29 Nos  
Booster Pumping Station with Sump - 128 Nos  
Over Head Tanks - 49 Nos

Estimate Cost Rs.433.04 Crores  
Technical Section - CER No: 02 / 2010-11, Dt. 19.08.2010  
Proposed Daily Water Supply- Intermediate - (2021)- 345.66 Lakh Liters.  
Ultimate - (2036) - 457.53 Lakh Liters

**MBR - Rayakottai**  
CAP :06.00 LL  
GL :743.000  
LWL :759.000  
MWL :762.000

**TP-1&2**  
Union : Kelamangalam,  
Shoolagiri & Veppanapally  
Panchayat : 43 Nos  
Habitations : 449 Nos



**BPS - Uthukurukkal**  
CAP :30.00 LL  
GL :741.285  
LWL :739.480  
MWL :743.480  
Pump Type :VT  
RATING : 400KW / 536HP  
DISCHARGE : 824 M3/Hr  
LPM :13741  
HEAD :128.18 Mtrs

**TP-2,3&4**  
Union : Kelamangalam  
Thally, Hosur & Shoolagiri  
Panchayat : 134 Nos  
Habitations : 1383 Nos

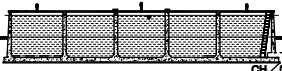
**BPS - Kaduchettipatti**  
CAP :35.00 LL  
GL :684.210  
LWL :682.235  
MWL :686.235  
Pump Type :VT  
RATING : 150KW / 201HP  
DISCHARGE : 296 M3/Hr  
LPM :4937  
HEAD :115.26 Mtrs

**TP-1,1A,2,3,4**  
Union : Kelamangalam,karimangalam, Thally,  
Hosur,Shoolagiri & Veppanapally  
Beneficiaries:Mpty-1Nos, TP-3Nos & VP-182  
Habitations : 1932 Nos

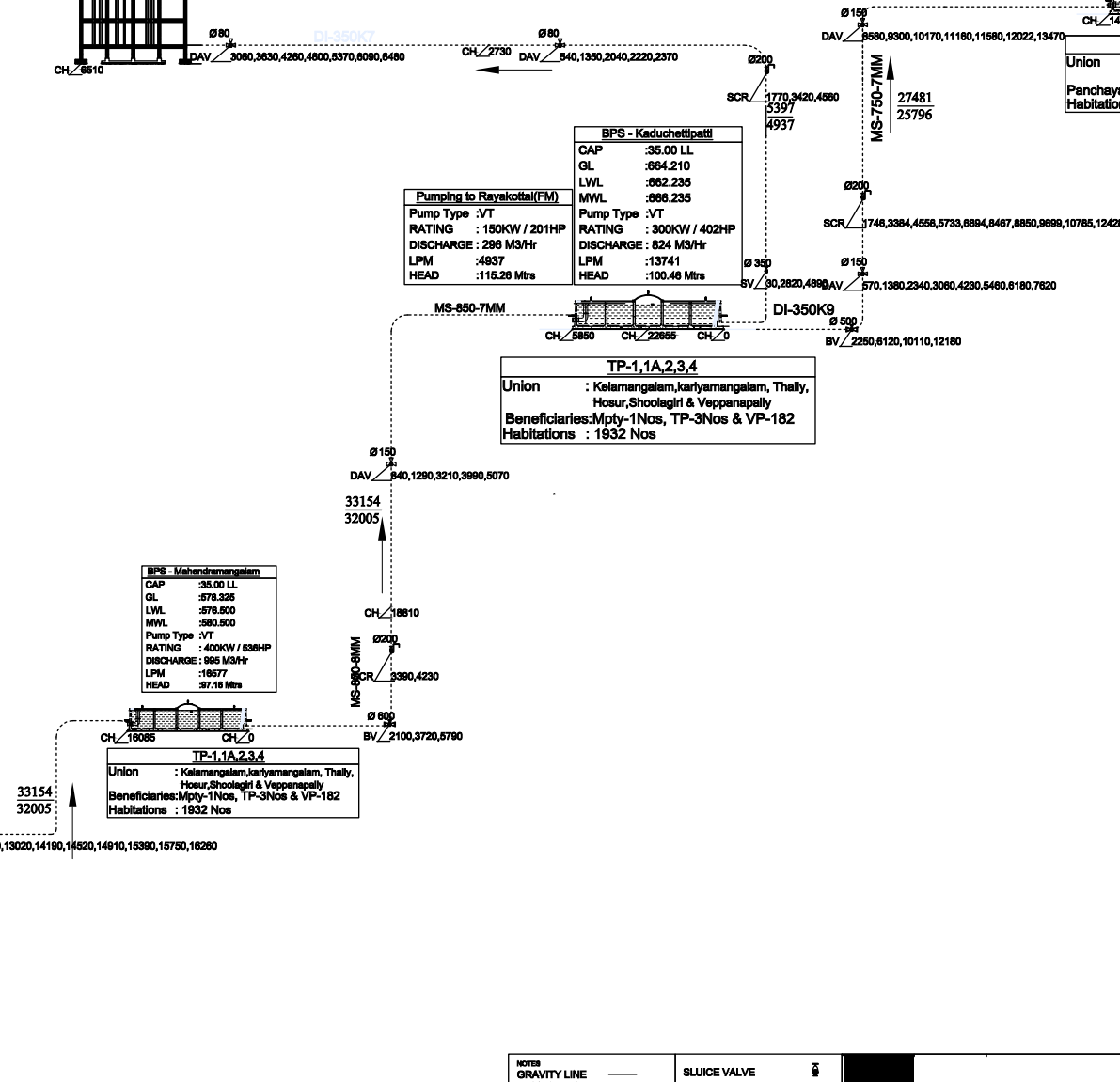
**BPS - Mahendramangalam**  
CAP :35.00 LL  
GL :578.325  
LWL :576.500  
MWL :580.500  
Pump Type :VT  
RATING : 400KW / 536HP  
DISCHARGE : 985 M3/Hr  
LPM :18577  
HEAD :97.18 Mtrs

**TP-1,1A,2,3,4**  
Union : Kelamangalam,karimangalam, Thally,  
Hosur,Shoolagiri & Veppanapally  
Beneficiaries:Mpty-1Nos, TP-3Nos & VP-182  
Habitations : 1932 Nos

**Common BPS - Moondipatti**  
CAP :75.20 LL  
GL :468.905  
LWL :465.405  
MWL :469.405  
Pump Type :VT  
RATING : 400KW / 536HP  
DISCHARGE : 985 M3/Hr  
LPM :18577  
HEAD :109.69 Mtrs



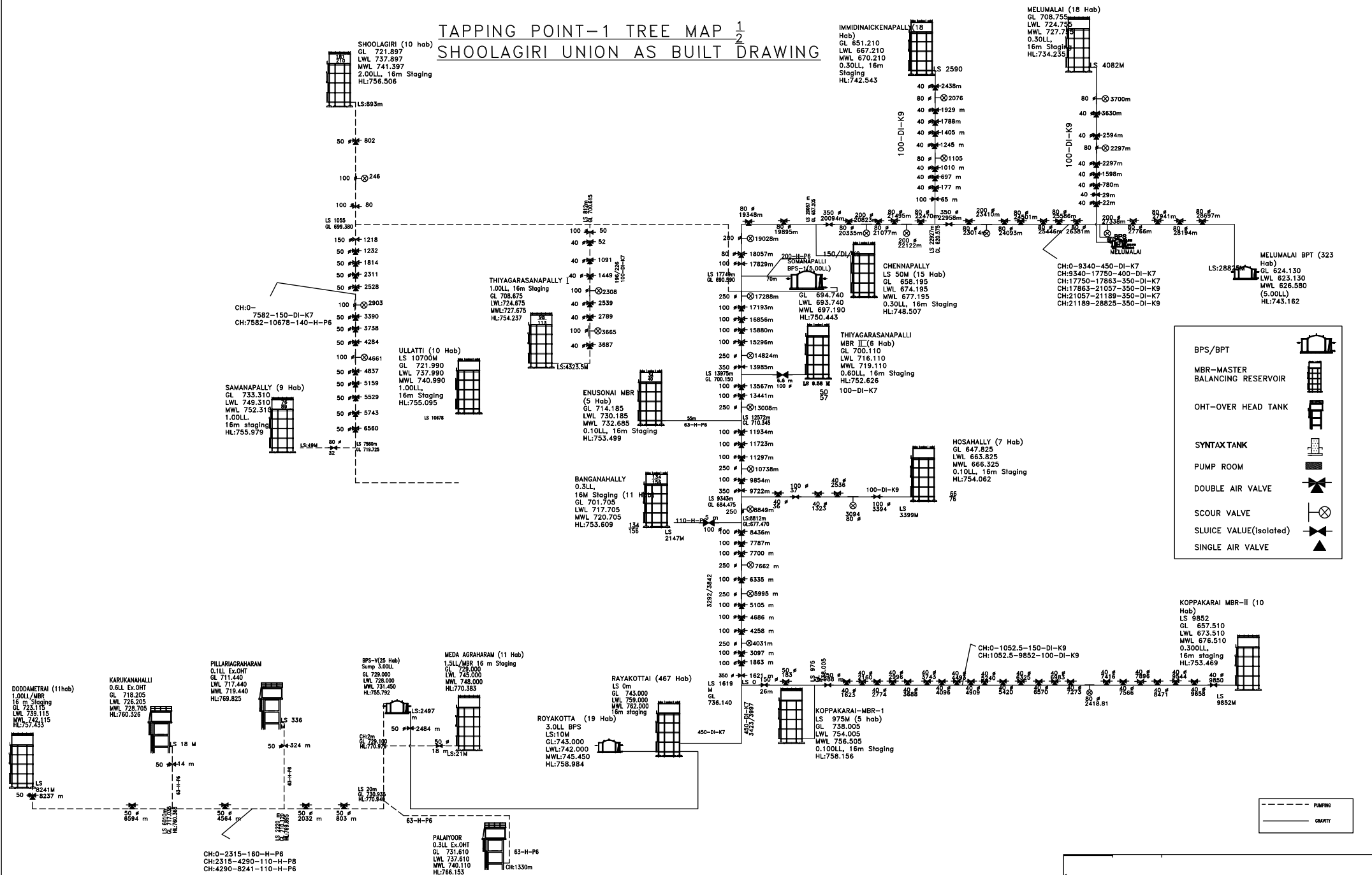
**TP-1A,1,2,3,4**  
Union : Kelamangalam,karimangalam, Thally,  
Hosur,Shoolagiri & Veppanapally  
Beneficiaries:Mpty-1Nos, TP-3Nos & VP-182  
Habitations : 1932 Nos



NOTES	GRAVITY LINE	SLUICE VALVE
	PUMPING LINE	SCOUR VALVE
DOUBLE AIR VALVE	84 NOS	SINGLE AIR VALVE
SLUICE VALVE	04 NOS	DOUBLE AIR VALVE
SCOUR VALVE	38 NOS	FLOW SYMBOL
BUTTERFLY VALVE	28 NOS	BUTTERFLY VALVE

AS BUILT DRAWING FOR TRUNK MAIN	PART 1 OF 2
Chief Engineer	T.WAD Board / Vellore
N.T.S	
A1	
R.P.G	

# TAPPING POINT-1 TREE MAP 1/2 SHOOLAGIRI UNION AS BUILT DRAWING



Tenderer

