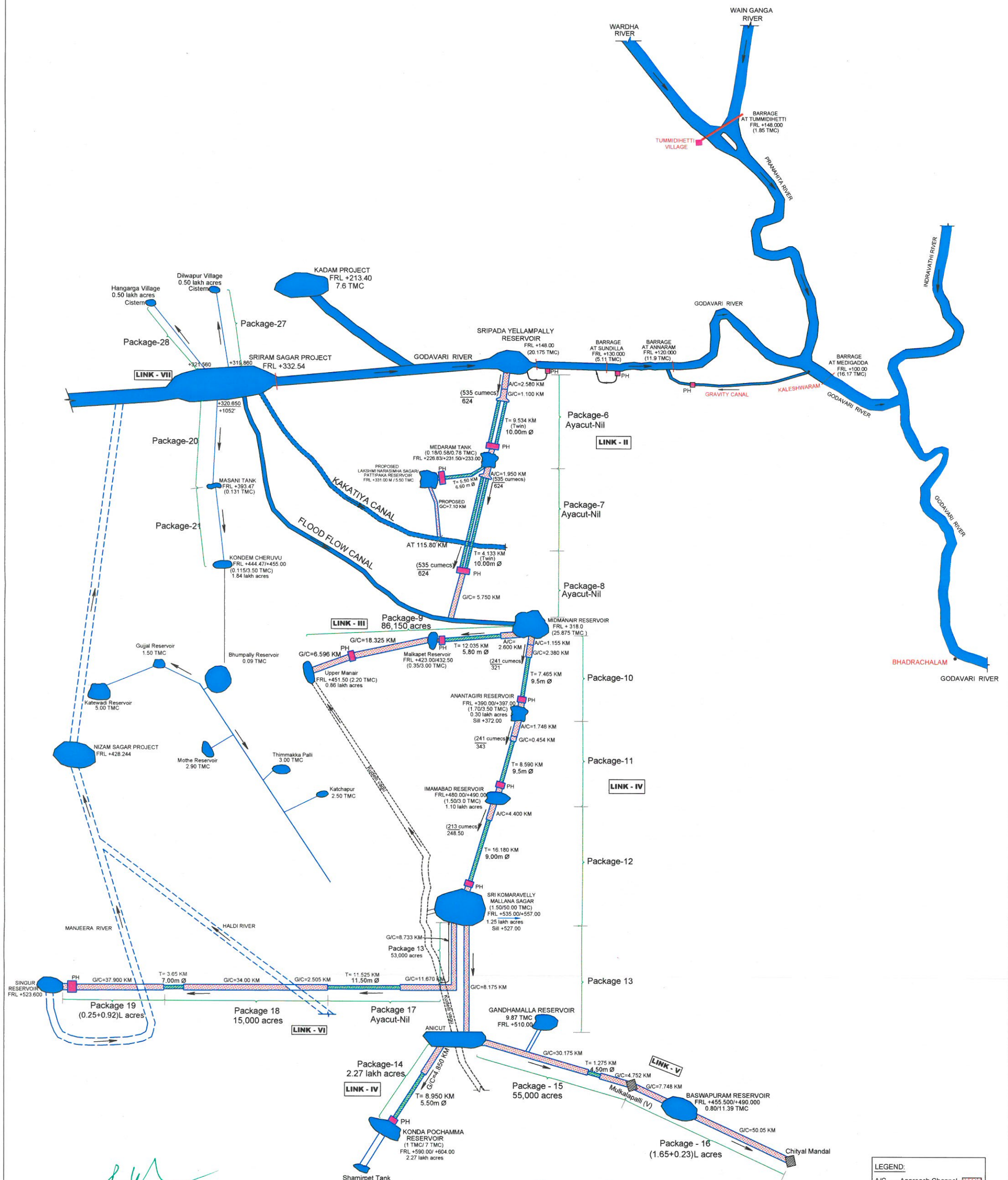


LINE DIAGRAM OF KALESHWARAM PROJECT



DEPUTY EXECUTIVE ENGINEER
SUB DIVN. No.4, K.P. DIVN. No.5

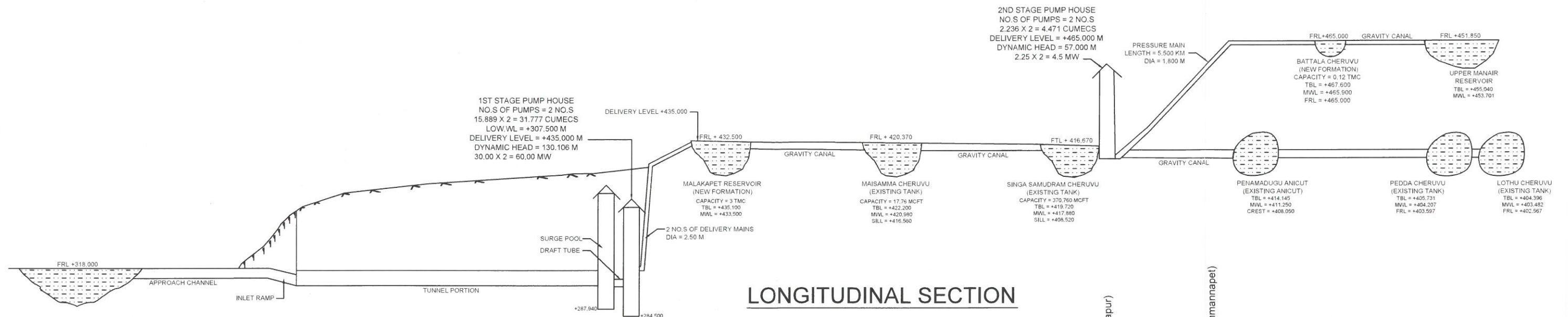
SIRIÇILLA (V & M)

EXECUTIVE ENGINEER I & CADD, KALESWARAM PROJECT DIVN. No.5
SIRICILLA (V & M)

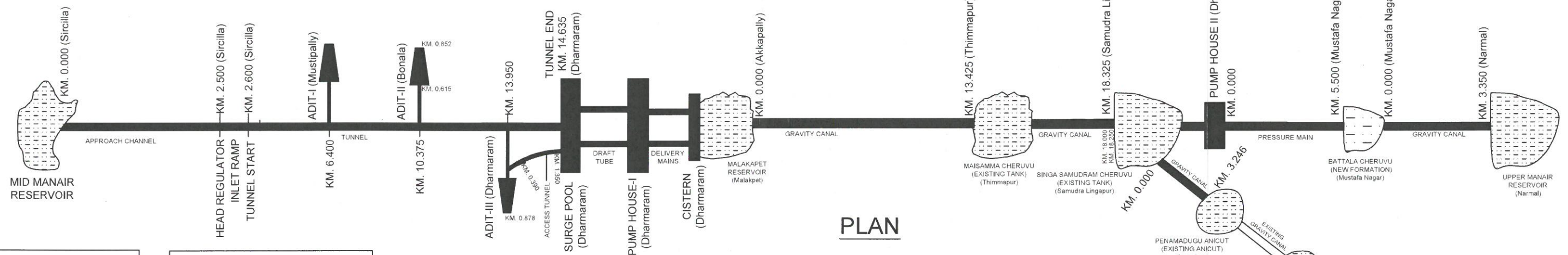
CHIEF ENGINEER
KALESWARAM PROJECT
LMD COLONY, KARIMNAGAR

**** NOT TO SCALE**

SCHEMATIC DIAGRAMME OF DR. B.R. AMBEDKAR PRANAHITHA - CHEVELLA SUJALA SRAVANTHI, LINK-III FROM MID-MANAIR RESERVOIR TO UPPER MANAIR RESERVOIR - PACKAGE - 9



LONGITUDINAL SECTION



PLAN

APPROACH CHANNEL (From Km. 0.000 to Km. 2.500)

1. Discharge = 47.67 Cumecs.
2. Bed width = 16.50 m
3. F.S.D = 2.95 m
4. Side slopes = 1.5:1
5. Bed Fall = 1 in 8000
6. "n" = 0.025

SURGE POOL (under ground)

1. Type = Rectangle
2. Size = 130 m x 20 m
3. Height = 42 m
4. Max. upsurge = +316.110 m
5. Max. down surge = +307.500 m
6. Gate opening platform level = +318.000 m

INLET RAMP + TUNNEL (From Km. 2.500 to Km. 14.635)

1. Discharge = 31.77 Cumecs.
2. No. of tunnels = 1 No.
3. Size & type = 5.8 m, D shape
4. Length = 12.035 km
5. Invert level at start = +301.988 m
6. FSL at entry = +310.688 m
7. Invert level at end = +296.142 m
8. Slope = 1 in 2255
9. Length of ramp = 100 m

	Location @ Km	Open Excavation	Tunnel
ADIT-I	6.400	231	250
ADIT-II	10.375	237	615
ADIT-III	13.950	251	878

DRAFT TUBE TUNNELS (the draft tube tunnel connect the surge pool & pump house)

1. No. of draft tubes = 2 no.s
2. Size = 5.8 m.
3. Length = 50 m

PUMP HOUSE (under ground)

1. Type = Rectangular
2. Size = 97 m x 18 m
3. Height = 37.5 m
4. No. of pumpus = 2 Nos

S.No.	Particulars	PUMP HOUSE	
		Stage-I @ Malakpet	Stage-II @ Singasamudram Tank
1.	Total Discharge	31.777 cumecs	3.00 cumecs
2.	Total Power in MW	60 MW	4.5 MW
3.	No. of Pumps	2 No.s	2 No.s
4.	Discharge/Pump in Cumecs	15.889 cumecs	2.236 cumecs
5.	Head	130.106 m	57 m (Tentative)
6.	Delivery Level	+435,000 m	+4605,000 m
7.	Power/Motor in MW (Each Pump)	30 MW	2.25 MW

S.No.	Particulars	Delivery Main	
		Stage-I @ Malakpet	Stage-II @ Singasamudram Tank
1.	Length	0.474 Km	5.500 Km
2.	Rows	2 No.s	1 No.s
3.	Diameter	2.50 m	1.80 m
4.	Discharge (Each Row)	15.889 cumecs	3.00 cumecs

S.No.	Particulars	GRAVITY CANAL			
		Malakpet to Singasamudram	Singasamudram to Penamadugu Anicut	Battala cheruvu to Upper Manair	
		0.000 to 13.425 Km	13.425 to 18.325 Km	0.000 to 3.246 km	0.000 to 3.350 km
1.	Length	13.425 Kms	4.900 Kms	3.246 Kms	3.350 Kms
2.	Bed width	6.70 m	5.100 m	2.75 m	3.00 m
3.	F.S.D	1.750 m	1.65 m	1.00 m	1.00 m
4.	Bed Fall	1 in 6500	1 in 6500	1 in 5000	1 in 4000
5.	Discharge	12.987 cumecs	9.126 cumecs	3.000 cumecs	3.000 cumecs
6.	"n"	0.018	0.018	0.018	0.018

DEPUTY EXECUTIVE ENGINEER
SUB DIVN. No.4, K.P. DIVN. No.5
SIRICILLA (V & M)

EXECUTIVE ENGINEER I & CADD
KALESWARAM PROJECT DIVN. No.5
SIRICILLA (V & M)

SUPERINTENDING ENGINEER
KALESWARAM PROJECT CIRCLE-II
LMD COLONY, KARIMNAGAR

CHIEF ENGINEER
KALESWARAM PROJECT
LMD COLONY, KARIMNAGAR

KALESHWARAM PROJECT

PROGRESS OF WORK OF LINK - IV - PACKAGE -10

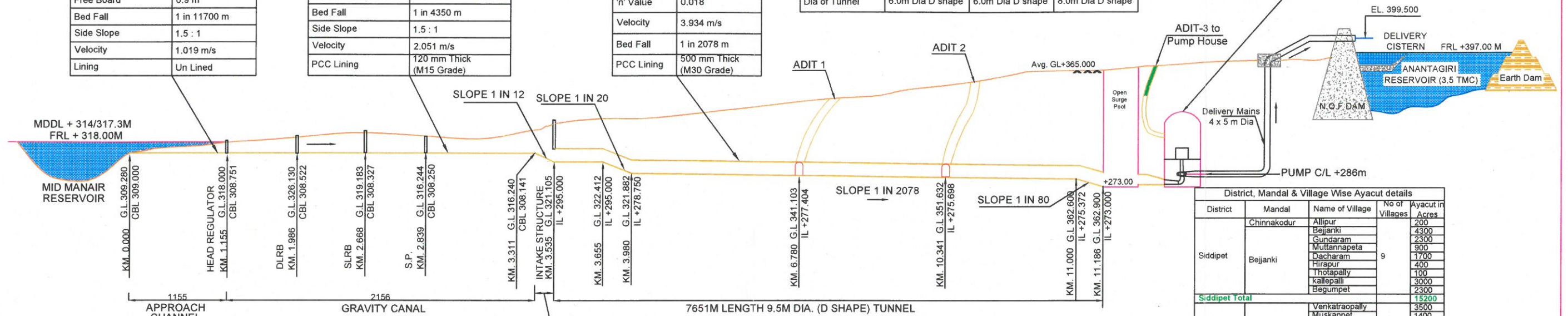
HYDRAULIC PARTICULARS OF APPROACH CHANNEL (Km 0.000 to Km 1.155)	
Length	1155 m
Discharge (Required)	482.025 Cumecs
Discharge (Designed)	482.610 Cumecs
Bed Width	85.250 m
FSD	5.1 m
Free Board	0.9 m
Bed Fall	1 in 11700 m
Side Slope	1.5 : 1
Velocity	1.019 m/s
Lining	Un Lined

HYDRAULIC PARTICULARS OF GRAVITY CANAL (Km 1.155 to Km 3.311)	
Length	2156 m
Discharge (Required)	321.350 Cumecs
Discharge (Designed)	328.477 Cumecs
Bed Width	23.750 m
FSD	5.1 m
Free Board	0.9 m
Bed Fall	1 in 4350 m
Side Slope	1.5 : 1
Velocity	2.051 m/s
PCC Lining	120 mm Thick (M15 Grade)

TUNNEL DETAILS (Km 3.535 to Km 11.186)	
Length	7651 m
Discharge	321.333 Cumecs
'n' Value	0.018
Velocity	3.934 m/s
Bed Fall	1 in 2078 m
PCC Lining	500 mm Thick (M30 Grade)

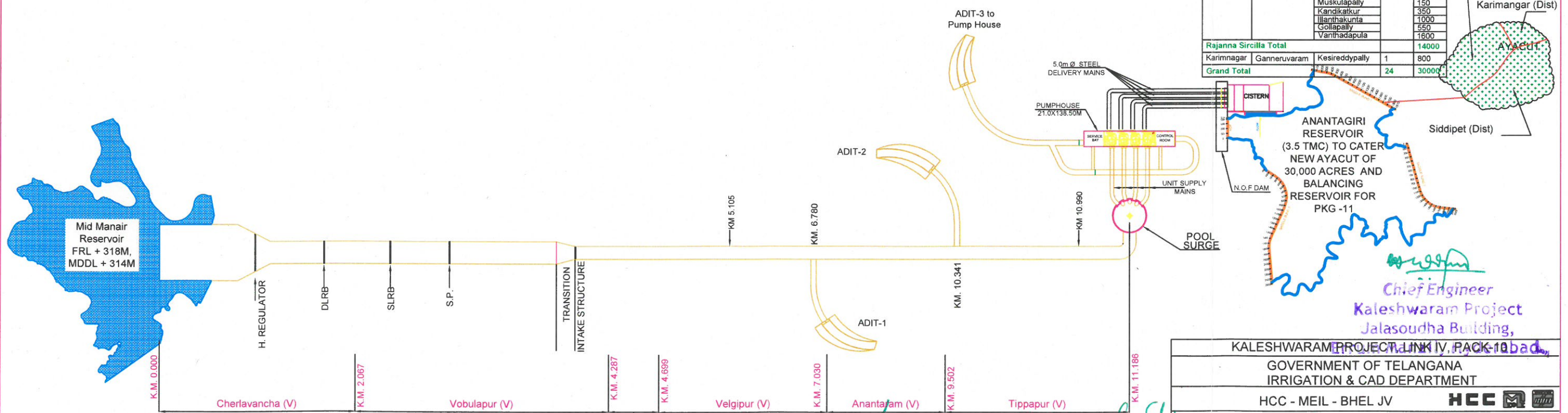
ADIT DETAILS			
ADIT	ADIT -1	ADIT -2	ADIT -3
Length of Open Excavation	446.5 m	252.5 m	228 m
Length of Tunnel	553.5 m	752 m	728 m + 312 m
Dia of Tunnel	6.0m Dia D shape	6.0m Dia D shape	8.0m Dia D shape

UNDER GROUND PUMP HOUSE	
Discharge	321 Cumecs
Size	21 m x 138.5 m
Static Head	95.682 m
Dynamic Head	101.2 m
Motors	4 x 106 MW
Pumps	4 x 80.33 Cumecs
Auxiliary Power	42 MW
Pumping Details	90 Days (88.24TMC)
Delivery Mains	4 x 5m dia



LONGITUDINAL SECTION

District, Mandal & Village Wise Ayacut details				
District	Mandal	Name of Village	No of Villages	Ayacut in Acres
Siddipet	Chinnakodur	Allurip	9	200
	Bejjanki	Bejjanki		4300
		Gundaram		2300
		Muttanapeta		900
		Dacharam		1700
		Hirapur		400
		Thotapally		100
		Kallepalli		3000
		Begumpet		2300
Siddipet Total				15200
Rajanna Sircilla	Illanthakunta	Venkatrapally	14	3500
		Muskanpet		1400
		Tallapally		1300
		Tippapur		300
		Jangam Reddy		650
		Pally		950
		Anantaram		100
		Veljipuri		1000
		Rahimkhanpet		1150
		Vallampally		150
		Muskulapally		350
		Kandikatkur		1000
		Illanthakunta		550
		Gollapally		1600
Rajanna Sircilla Total				14000
Karimnagar	Ganneruvaram	Kesireddypally	1	800
Grand Total			24	30000



PLAN

Executive Engineer,
Sub Div. No. 1 of Construction Div. No. 1
Ellanthakunta, Rajanna Sircilla (D)

Executive Engineer,
Construction Div. No. 1,
Kaleshwaram Project
Siddipet.

Superintending Engineer,
Kaleshwaram Project Construction Circle,
Siddipet.

KALESHWARAM PROJECT LINK IV, PACKAGE -10
GOVERNMENT OF TELANGANA
IRRIGATION & CAD DEPARTMENT
HCC - MEIL - BHEL JV
FORMATION OF NEW RESERVOIR AT ANANTAGIRI VILLAGE
SCHAMATIC DIAGRAM