

Project Main canal - Hydraulic particulars for Km 0 to 17.075 Malyala Supply Channel (GKLI Scheme)

Sl.No.	Reach		Total Distance	Discharge to be Designed Cumecs	Bed Width	F.S.D.	Bed Fall 1 in 'n'	Side slope 1:N	Value of C/N	Area of CS (sqm)	Wetted Perimeter M	Value of R	Velocity M/sec	Designed Discharge Cumecs	Loss of head due to				Canal Bed level		FSL		free board	Top Bund Level		critical velocity in m/sec	critical velocity ratio	Remarks
	From Km	To Km													Bed fall (m)	Structures (m)	Drops	Total loss of head (m)	start	end	start	end		Start	End			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	17a	18	19	20	21	22	23	24	25	26	27	28
REACH-1																												
1	0.000	2.085	2.085	3.543	3.50	1.20	5500.00	1	0.018	5.640	6.89	0.81	0.63	3.56	0.379	0.020		0.399	266.600	266.201	267.800	267.401	0.900	268.70	268.30	0.60	1.08	
2	2.085	7.300	5.215	3.422	3.40	1.20	5500.00	1	0.018	5.520	6.79	0.81	0.63	3.47	0.948	0.140		1.088	266.201	265.113	267.401	266.313	0.900	268.30	267.21	0.60	1.08	
			7.300												total head loss=			1.33	0.16	0.00	1.487		start FSL-endFSL=		1.487			
															proposed BL at start:				266.600									
REACH-2																												
1	7.300	16.150	8.850	2.915	3.40	1.05	5200	1	0.018	4.67	6.37	0.73	0.63	2.928	1.702	0.390		2.092	264.450	262.358	265.500	263.408	0.50	266.25	264.08	0.56	1.11	
2	16.150	17.075	0.925	2.915	3.00	1.05	2500	0.5	0.018	3.70	5.35	0.69	0.87	3.22	0.370			0.370	262.358	261.988	263.408	263.038	0.50	264.08	263.71	0.56	1.54	
			9.775												total head loss=			2.07	0.39	0.00	2.462		start FSL-endFSL=		2.462			
															proposed BL at start:				264.450									

Sd/- 26.02.2013  
Superintending Engineer,  
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Project \_\_\_\_\_ Hydraulic particulars of \_\_\_\_\_ Main canal from Km \_\_\_\_\_ to Km \_\_\_\_\_

**STATEMENT SHOWING THE CROSS MASONRY WORKS**

Malyala Supply Channel (GKLI Scheme)

Sl.No.	Description	Name of CM Work	Chainage in KM	Existing GL at crossing	Hydraulic Particulars of canal						Loss of Head in Mts	Remarks
					B.L.		F.S.L.		T.B.L.			
1		SLB	0.550	267.150		266.500		267.700		268.600		To be taken up
2		SLB	1.765	267.880		266.279		267.479		268.379		Completed
3		SLB	4.085	267.740		265.757		266.957		267.857		Completed
4		SLB	4.950	266.270		265.600		266.800		267.700		Completed
5		SLB	5.995	267.720		265.410		266.610		267.510		Completed
6		DLB	7.275	268.825		265.180		266.380		267.280		To be taken up
7		SLB	7.725	265.490		264.348		265.398		265.898	0.020	Completed
8		SLB	8.835	265.290		264.095		265.145		265.645	0.020	Completed
9		SLB	12.565	264.500		263.148		264.198		264.698	-	Completed

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Project

Hydraulic particulars of

Main canal from Km

to Km

**STATEMENT SHOWING THE CROSS DRAINAGE WORKS**

Malyala Supply Channel (GKLI Scheme)

Sl. No	Name of CM/CD Work	Chainage in KM	Particulars of Drain				Hydraulic Particulars of PARENT canal					Loss of Head in Mts	Remarks
			Bed Levl in mm	CA in Sq.Km	MFD Cumecs	OMFL	Bed Width in m	F.S.D in m	B.L. in m	F.S.L. in m	T.B.L. in m		
1	SP/UT	0.160	To be submitted along with site survey						266.571	267.771	268.671		Surplus weir crossing; to be taken up
2	UT	0.250							266.555	267.755	268.655		Completed
3	UT	0.300	265.460	0.040	1.734				266.545	267.745	268.645		Completed
4	UT	0.675	267.680	0.120	3.953				266.477	267.677	268.577		Completed
5	UT	1.420	266.110	0.100	3.448				266.342	267.542	268.442		Completed
6	UT	1.875	265.550	1.090	20.850				266.259	267.459	268.359		Design Approved
7	SP	2.200	To be submitted along with site survey						266.100	267.300	268.200		Proposal to be submitted
8	SP	2.475	To be submitted along with site survey						266.050	267.250	268.150		Proposal to be submitted
9	SP	3.385	264.270	0.045	1.894				265.885	267.085	267.985		Proposal to be submitted
10	UT	3.800	266.520	0.055	2.202				265.810	267.010	267.910		Completed
11	UT	4.180	263.940	0.490	11.500				265.740	266.940	267.840		Completed
12	UT	4.425	266.260	0.430	10.400				265.695	266.895	267.795		Completed
13	UT	4.800	266.230	0.410	10.000				265.627	266.827	267.727		Completed
14	UT	5.385	265.140	0.140	4.438				265.521	266.721	267.621		Completed
15	Inlet	5.625	266.850	0.033	1.500				265.477	266.677	267.577		Proposal to be submitted
16	Inlet	5.990	266.530	0.034	1.535				265.411	266.611	267.511		Completed
17	Inlet	6.100	266.550	0.040	1.733				265.391	266.591	267.491		Completed
18	Inlet	6.350							265.345	266.545	267.445		Completed
19	Inlet	6.500							265.318	266.518	267.418		Completed
20	Inlet	6.725							265.277	266.477	267.377		Completed
21	UT	7.975							264.300	265.350	265.850		Completed

Sl. No	Name of CM/CD Work	Chainage in KM	Particulars of Drain				Hydraulic Particulars of PARENT canal					Loss of Head in Mts	Remarks
			Bed Levl in mm	CA in Sq.Km	MFD Cumecs	OMFL	Bed Width in m	F.S.D in m	B.L. in m	F.S.L. in m	T.B.L. in m		
22	UT	8.275	264.360	0.060	2.351				264.243	265.293	265.793		Completed
23	UT	9.050	262.870	0.056	2.236				264.033	265.083	265.583		Completed
24	UT	9.325	263.170	2.800	36.500				263.961	265.011	265.511		Design Approved
25	UT	9.575	263.070	0.058	2.292				263.893	264.943	265.443		Completed
26	SP	9.670	263.070	0.056	2.236				263.854	264.904	265.404		Proposal to be submitted
27	UT	10.250	258.734	0.600	13.500				263.713	264.763	265.263		Proposal to be submitted
28	Inlet	10.625	To be submitted along with site survey						263.641	264.691	265.191		Proposal to be submitted
29	Inlet&Outlet	10.700	To be submitted along with site survey						263.626	264.676	265.176		Proposal to be submitted
30	UT	11.097	263.300	0.060	2.351				263.530	264.580	265.080		Completed
31	UT	11.265	262.936	0.075	2.779				263.478	264.528	265.028		Completed
32	Inlet	11.600	264.430	0.010	0.619				263.393	264.443	264.943		Proposal to be submitted
33	Inlet&Outlet	11.850	264.540	0.011	0.620				263.325	264.375	264.875		Proposal to be submitted
34	SP	12.075	264.840	0.200	5.832				263.262	264.312	264.812		Under Progress
35	UT	12.675	260.230	0.500	11.600				263.106	264.156	264.656		Completed
36	SP	13.225	To be submitted along with site survey						262.961	264.011	264.511		Under Progress
37	Inlet	13.625	264.850	0.100	3.468				262.884	263.934	264.434		Proposal to be submitted
38	SP	13.775							262.815	263.865	264.365		Proposal to be submitted
39	SP	14.530	264.600	0.200	5.812				262.670	263.720	264.220		Proposal to be submitted
40	UT	14.900	260.240	0.135	4.318				262.598	263.648	264.148		Completed
41	Inlet&Outlet	15.250							262.531	263.58	264.08		Proposal to be submitted
42	UT	16.000	260.000	0.051	2.081				262.387	263.437	263.937		Completed

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**STATEMENT SHOWING THE DETAILS OF OFF TAKES**

Malyala Supply Channel (GKLI Scheme)

PARENT CANAL DISCHARGE =

CUMECS

BED FALL =

**FSL**

S.NO.	NAME OF DISTRIBUTORY	LOCATION ON MAIN CANAL	EXISTING ROAD LEVEL	DISTRIBUTORY				PARENT CANAL AT O.T POINT		DISTRIBUTORY				DES. DIS. IN CUMECS	HIGHEST FIELD LEVEL IN MTS	HEIGHT OF RECLAMATION IN MTS
				AYACUT IN ACRES	DIS. REQ. IN CUMECS	% OF DIS. TO PARENT CANAL IN M	HT. OF SIL ABOVE BED OF PARENT CANAL IN M	U/S IN MTS	D/S IN MTS	SILL LEVEL IN MTS	REAR F.S.L IN MTS	VENT SIZE IN SQ.M	F.S.D INMTS			
1	Jangamreddyplaii Major	2.150		1,650.6	0.396	5.4%										
2	Teliki Minor-1	3.385		40.0	0.010	0.8%										
3	Teliki Minor-2	4.465		317.8	0.076	9.3%										
4	Teliki Minor-3	5.300		488.7	0.117	0.3%										
5	Ahobilam-1	7.300		1,045.8	0.251	0.5%										
6	DP-1-Ahobilam	7.650		65.4	0.016	4.2%										
7	DP-2- Ahobilam	8.700		107.1	0.026	0.4%										
8	Ahobilam-2	9.075		370.1	0.089	0.5%										
9	Bodivaripalli minor	11.900		1,529.3	0.367	0.4%										
10	DP-1-Buchupalli	14.775		90.1	0.022	0.4%										
11	DP-2-Buchupalli	15.225		105.2	0.025	0.6%										
12	BUCHUPALLI MINOR2	16.050		282.5	0.068	0.4%										
13	DP Minor	17.400		243.4	0.058	0.9%										
14	DP	19.625		123.8	0.030	0.4%										
15	DP	20.800		115.7	0.028	9.7%										
16	DP	21.400		58.1	0.014	0.4%										
17	Tail end-Malyala-Major	22.000		1,235.3	0.296	0.3%										

7868.990

1.889

Tank feeding  
**Total:**

1.49 Cumecs  
**3.38 Cumecs**

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\_\_\_\_\_ Project \_\_\_\_\_ Hydraulic particulars of \_\_\_\_\_ Main canal from Km \_\_\_\_\_ to Km \_\_\_\_\_

**STATEMENT SHOWING THE DETAILS OF REGULATORS**

Malyala Supply Channel (GKLI Scheme)

S.NO.	STRUCTURE	CHAINAGE IN KM	EXISTING ROAD LEVEL IN MTS	HYDRAULIC PARTICULARS OF CANAL										LOSS OF HEAD IN MTS	REMARKS
				BED WIDTH		F.S.D		B.L		F.S.L		T..B.L			
				U/S IN MTS	D/S IN MTS	U/S IN MTS	D/S IN MTS	U/S IN MTS	D/S IN MTS	U/S IN MTS	D/S IN MTS	U/S IN MTS	D/S IN MTS		
	Head Regulator	-0.093			3.400		1.200		266.600		267.800		268.700	0.000	
	on Paidipalem reservoir														
	(at Km - 0.093 on Paidipalem Reservoir)														
	sluice from tank at KM. 7.300	7.300		Tank	3.400	Tank	1.050	Tank	264.45	Tank	265.500	Tank	266.000		
	Cross Regulator at KM. 17.075	17.075		3.000		1.050		262.060		263.110		263.710			

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