

SALIENT FEATURES OF PAIDIPALEM RESERVOIR		
S.no	Description	H.P's
1	Capacity :	6 TMC.
2	F.R.L. :	+281.00 M.
3	T.B.L. :	+285.00 M.
4	M.D.D.L. :	+243.50 M.
5	Length of Earth Dam :	3650 M.
6	Length of Surplu weir :	15 M.
8	Location of Sluice : for feder Channel: @	1286 M.
	for Lavanur distributory @	3370M

Componants:-Lift-Stage-I:(From Gandikota Reservoir to Pydipalem Reservoir)

S.no	Description	H.P's
1	Height of Lift :	77 M. \sim +204 to +281 \sim
2	Discharge :	14.24 x 2 cumecs
3	Volume to be pumped :	4+2 : 6 TMC.
4	Capacity of pumps :	3700 KW-5000 HP x 9+1 Nos
5	Pressure Mains :	3.0M Dia x 2 Row-10.10 Km Length

Feeder Channel & High Level supply Channel- Phase-II:

S.no	Description	H.P's
1	Discharge :	10 Cumecs \sim 350 Cusecs \sim
2	Length :	16.6 Kms
3	No. of structures :	31
4	Bed Width :	6.50 M.
5	F.S.D. :	1.70 M.
6	Bed Fall :	1 in 10000
7	Section :	LINED
8	Ayacut :	45,000 Ac. Direct ayacut & 41,000 Ac under PBC

Himakuntla Sump:

S.no	Description	H.P's
1	Capacity :	0.04 TMC. \sim 1.13 M.Cum. \sim
2	F.R.L. :	+244.75 M.
3	T.B.L. :	+247.75 M.
4	M.D.D.L. :	+241.50 M.
5	Length of Earth Dam :	650 M.
6	Length of Surplu weir :	55 M.

Lift-Stage-II: (From Himakuntla sump to PBC)

S.no	Description	H.P's
1	Height of Lift :	14.5 M. \sim +241.5 to +256.0 \sim
2	Discharge :	9.0 cumecs
3	Volume to be pumped :	2.84 TMC.
4	Capacity of pumps :	750 KW \sim 1019 Hp \sim x 4 Nos
5	Pressure Mains :	1.5M Dia x 3 Row-1.6 Km Length

Power Consupction : Stage-I Stage-II

S.no	Description	Stage-I	Stage-II
1	Power in MW	33.3	2.25
2	in HPs	44,638	3.057
3	Daily power requirement	7,99,200	54,000 KWH
4	Annual power req. Million KWHs	52.51	5.69

FLOW DIAGRAM OF GANDIKOTA LIFT IRRIGATION SCHEME

Name of Work:- Gandikta Lift Irrigation Scheme consisting of Phase-I&II" Investigation ,Design and construction of (a) Stage-I Lift component (from +202 to +281 from foreshore of Gandikota to Paidipalem with 14.24 Cumecs capacity) (b) Formation of Paidipalem Reservoir with a capacity of 6 TMC & Himakuntla sump (c) Stage -II lift from Himakuntla sump to Pulivendula Branch Canal (from +241.500 to to +256.000) for supplimenting an ayacut of 41000 acres (d) Excavation of Feeder channel, Mallela supply canal and Distributory system for 47500 acres of direct ayacut.

Agency : M/S KBL-MCCL (JV), Pune
EOT : 30-06-2019

Agreement value	727.40 Cr
Progress	696.76 Cr
Percentage progress	95.78%

