



Sd/- 03/12/2009
SUPERINTENDING ENGINEER
G.N.S.S. CIRCLE, KADAPA.

NOTES & SPECIFICATIONS :

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES. FOLLOW FIGURED DIMENSIONS AND DO NOT SCALE THE DRAWING.
- MINIMUM COVER TO ALL REINFORCEMENT SHALL BE 40 MM TO ENSURE PROPER COVER OF CONCRETE TO REINFORCEMENT.
- ALL REINFORCING STEEL SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS, (FE 415) CONFORMING TO IS 1786 - 1985.
- JOINTS OR LAPPING OF BARS IN MAIN REINFORCEMENT SHALL BE AVOIDED AS FAR AS POSSIBLE. HOWEVER IF LAPS ARE INEVITABLE, THE PROVISION IN CLAUSE OF SHALL BE STRICTLY FOLLOWED.
- BENDING OF REINFORCEMENT BARS SHALL BE AS PER IS - 2502. SUPPORTING CHAIRS OF 12 MM DIA SHALL BE PROVIDED AT SUITABLE INTERVALS AS PER IS - 2502.
- CONCRETE SHALL BE PREPARED IN THE MECHANICAL MIXERS OF CAPACITY NOT LESS THAN 200 LITRES. PROPER COMPACTION OF CONCRETE SHALL BE ENSURED BY USE OF FORM AND NEEDLE VIBRATORS.
- ALL HAUNCHES PROPOSED IN THE BOXES ARE OF 150 X 150 SIZE
- PIPE JOINTS SHALL BE AS SHOWN IN THE DRAWING OR OF ANY OTHER STANDARD TYPE.

S.NO.	PARTICULARS	GRADE OF CEMENT CONCRETE AS PER IS:456-2000	MAX SIZE OF GRADED COARSE AGGREGATE AS PER IS:383-1999.
a	HEAD WALL, WINGS & RETURNS	CC M15 GRADE	40 MM
b	BOX	RCC M20 GRADE	20 MM
c	SEALING COAT	CC M25 GRADE	20 MM
d	FOUNDATION COCRETE OF HEAD WALL, WINGS & RETURNS	CC M15 GRADE	40 MM
e	BED CONCRETE & APRON	CC M15 GRADE	40 MM
f	C.C LINING	CC M15	20MSA
g	CUT OFF	CC M 15	40 MSA

Codes for Reference: 1. IS : 383 - 1999 2. IS : 456 - 2000 3. IS : 458 - 1988

HYDRAULIC PARTICULARS			
SL.NO.	PARTICULARS	MAIN CANAL	DISTRIBUTORY
1	AYACUT		27308 acres
2	DISCHARGE (REQD.)	10.017 cumecs	6.5630 cumecs
3	DISCHARGE (DES.)	10.277 cumecs	6.6232 cumecs
4	BED WIDTH	6.5 mts.	6.000 mts
5	FULL SUPPLY DEPTH	1.7 mts.	1.250 mts
6	VELOCITY	0.668 mts/sec	0.673 mts/sec
7	BED FALL	1 in 9000	1 in 4000
8	COEFFT. OF RUGOSITY	0.018	0.0225
9	FREE BOARD	0.75 mts	0.60 mts
10	SIDE SLOPES	1.5 : 1	1.5 : 1
11	TOP WIDTH OF BANKS (LEFT)	7.925 mts	5.00 mts
	(RIGHT)	4.025 mts	1.501 mts
12	BED LEVEL	+ 244.660	+ 244.960
13	FULL SUPPLY LEVEL	+ 246.360	+ 246.210
14	TOP BUND LEVEL	+ 247.110	+ 246.810
14	AVG. G.L.	+ 247.125	+ 247.125
15	HIGHER FIELD LEVEL TO BE IRRIGATED		246.000

STRESS TABLE

S.NO	DESCRIPTION	STRESSES IN T / SQ.M			
		AT BASE		ON SOIL	
		MAX.	MIN.	MAX.	MIN.
1	U/S STREAM HEAD WALL	15.960	0.009	11.131	5.038
2	U/S WING WALL (MAX.SECTION)	12.088	-2.015	8.642	2.270
3	D/S HEAD WALL	17.055	-4.579	10.244	1.906
3	D/S WING WALL & RETURN WALL	14.264	-3.376	8.419	2.320

REVISION NO:	REFERENCE	DATE
CLIENT	GOVERNMENT OF ANDHRA PRADESH IRRIGATION & CAD DEPARTMENT	
PROJECT	GANDIKOTA LIFT IRRIGATION SCHEME FEEDER CHANNEL	
TITLE	OFF TAKE SLUICE AT KM.3.25-Revised	
CONTRACTORS	M/S KBL - MCCL (JV) PUNE	
CONSULTANTS		
DRAWING NO: GLIS/FC/OT-3.25 /001/2009/Rev-1	SCALE AS INDICATED	DATE