



## NOTES

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- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES FOLLOW FIGURED DIMENSIONS AND DO NOT SCALE THE DRAWING.
- BACK FILLING SHALL BE DONE SIMULTANEOUSLY WITH THE RAISING OF THE WINGS & RETURNS USING SOILS WITH ANGLE OF REPOSE NOT LESS THAN 28° AND PERMEABILITY COEFFICIENT 'K' VALUE NOT MORE THAN 3M/YEAR.
- THE MAXIMUM STRESSES ON FOUNDATION STRATA WORKED OUT FOR THE WINGS & RETURNS ARE SHOWN IN STRESS TABE. IF THE FOUNDATION STRATA METWITH DURING EXECUTION IS INFERIOR AND CANNOT TAKE THE DESIGNED STRESSES, THE SECTIONS ARE TO BE SUITABLY REVISED.
- MINIMUM COVER TO ALL REINFORCEMENT SHALL BE 30 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 304.6.6 OF IRC 21 - 2000 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 100 X 100 SIZE

STRESS TABLE					
S.No.	PARTICULARS	STRESSES IN T/SQM			
		IN CONCRETE		ON SOIL	
		MAX.	MIN.	MAX.	MIN.
1	U/S HEAD WALL	5.45	0.83	-	-
2	D/S HEAD WALL	5.45	0.83	-	-
3	U/S WING	13.13	0.43	10.45	3.72
4	D/S WING	13.13	0.43	10.45	3.72
5	U/S RETURN	13.46	0.72	10.86	3.94
6	D/S RETURN	9.26	0.86	7.31	3.63

S.NO.	PARTICULARS	GRADE OF CEMENT CONCRETE AS PER IS:456-2000	MAX SIZE OF GRADED COARSE AGGREGATE AS PER IS:383
A	APRON	CC M15 GRADE	40 MM
B	WINGS, RETURNS,HEAD WALLS, DROP WALLS & FOUNDATIONS	CC M15 GRADE	40 MM
C	WEARING COAT	CC M25 GRADE	20 MM
D	SEALING COAT	CC M25 GRADE	20 MM
E	BOX	RCC M20 GRADE	20 MM

## REFERENCE DRAWINGS

- DRAWING NO. GLIS/SKC/UT-27.900/001/2011 - GENERAL PLAN AND SECTIONAL ELEVATION

REVISION NO:	DRAWN	CHECKED	APPROVED	DATE
CLIENT	GOVERNMENT OF ANDHRA PRADESH IRRIGATION & CAD DEPARTMENT			
PROJECT	GANDIKOTA LIFT IRRIGATION SCHEME SANTHAKOVURU MAJOR DISTRIBUTORY			
TITLE	UNDER TUNNEL AT KM. 31.775 RCC DETAILS OF BOX			
CONTRACTORS	KBL - MCCL (JV) HYDERABAD			
DRAWING NO:	SCALE		DATE	
GLISS/SKC/UT/27.900/002/2011	AS INDICATED			

SD/- Dt: 30.09.2015  
Superentending Engineer  
GNSS Circle,Kadapa