

CONCRETING

CONCRETE

- 81. THE GRADE OF MIX OF CONCRETE FOR ALL RCC WORK SHALL BE AS SPECIFIED IN STRUCTURAL DRAWING AND SHALL NOT BE LEANER THAN M-25 DESIGN MIX.
- 82. WHEN EVER THE DESIGN MIX IS SPECIFIED IN STRUCTURAL DRAWING / PARTICULAR SPECIFICATIONS OF CONTRACT , THE DESIGN MIX SHALL BE DONE AS PER IS- 10262.
- 83. FREQUENCY OF SAMPLING OF CONCRETE AND ITS ACCEPTANCE CRITERIA SHALL BE AS PER CLAUSE 15 &16 OF IS - 456 RESPECTIVELY.
- 84. LEAN CONCRETE IN FOUNDATION SHALL BE M-10 NOMINAL MIX 100 MM THICK UNLESS SPECIFIED OTHERWISE.

POURING AND COMPACTION

- 85. AS FAR AS POSSIBLE ALL CONCRETING SHALL BE DONE IN ONE OPERATION UP TO THE PRE DECIDED STAGE AS PER CLAUSE 13.4 OF IS : 456 - 2000.
- 86. IN CASE OF BEAM , CONCRETE SHALL BE POURED STARTING FROM SUPPORTS AND CONTINUED TOWARDS MID SPAN.
- 87. IN CASE OF CANTILEVER , CONCRETE SHALL BE POURED STARTING AT THE FIXED END AND MOVING TOWORD FREE END.
- 88. CONCRETE SHOULD BE THOROUGHLY COMPACTED AND FULLY WORKED AROUND THE REINFORCEMENT, AROUND EMBEDDED FIXTURE AND INTO CORNERS OF THE FORMWORK.
- 89. ALL CONCRETE FOR RCC WORK SHALL BE COMPACTED USING APPROPRIATE TYPE OF VIBRATORS , SO AS TO ACHIEVE DENSE AND COMPACT CONCRETE AROUND REINFORCEMENT, ANY EMBEDED FIXTURE AND TO THE SIDE OF FORM WORK. VIBRATOR FOR COMPACTION OF CONCRETE SHALL COMPLY WITH THE REQUIRMENTS OF IS:2505, IS : 2514 AND IS: 4656.
- 90. OVER VIBRATION MAY LEAD TO SEGREGATION OF CONCRETE AND SHOULD BE AVOIDED. UNDER VIBRATION WILL NOT GIVE THE NECESSARY COMPACTION. PROPER VIBRATION TO ACHIEVE, A DENSE AND VOID FREE CONCRETE SHALL BE ENSURED.
- 91. CONCRETE ONCE LAID AND COMPACTED SHALL NOT BE DISTURBED OR REMOVED.

CURING

- 92. EXPOSED SURFACE OF CONCRETE SHALL BE KEPT CONTINUOUSLY IN A DAMP OR WET CONDITION BY PONDING OR BY COVERING WITH A LAYER OF SACKING CANVAS AND SIMILAR MATERIAL AND KEPT CONSTANTLY WET FOR ATLEAST SEVEN DAYS FROM DATE OF PLACING CONCRETE IN CASE OF ORDINARY PORTLAND CEMENT AND ATLEAST 10 DAYS WHERE MINERAL ADMIXTURE OR BLENDED CEMENT ARE USED.THE PERIOD OF CURING SHALL NOT LESS THAN 10 DAYS FOR CONCRETE EXPOSED TO DRY AND HOT WEATHER CONDITIONS. IN CASE OF CONCRETE WHERE MINERAL ADMIXTURE OR BLENDED CEMENTS ARE USED, IT IS RECOMMENDED THAT ABOVE MINIMUM PERIOD MAY BE INTENDED TO 14 DAYS.

READY MIXED CONCRETE (RMC)

- 93. RMC MUST BE USED IN ALL RCC WORKS. HOWEVER, IN WORKS REQUIRING SMALL QUANTITY OF CONCRETE, IN-SITU CONCRETE MAY BE ALLOWED BY THE ACCEPTING OFFICER WITH THE FOLLOWING REQUIREMENTS TO BE MET.
 - (a) THE CONCRETE MIX SHALL BE DESIGNED PROPERLY.
 - (b) MIX OF TWO TYPES i.e. RMC AND CONCRETE IN-SITU SHALL NOT BE PERMITTED FOR THE SAME ELEMENT OF STRUCTURE.

SNO.	DATE	DESCRIPTION	BY .DIR	DIR(DES)
REVISIONS				
DATE	30 MAY 2024	CHIEF ENGINEER JALANDHAR ZONE		
DRN	POOJA T			
TCD				
CKD				
SCALE	AS SHOWN			
SHT. SIZE	A3	TYPICAL RCC DETAILS		
		CONCRETING		
		DRG. NO.	SHEET NO.	
			21/34	
		DRG NO CEJZ / STD-422/24		