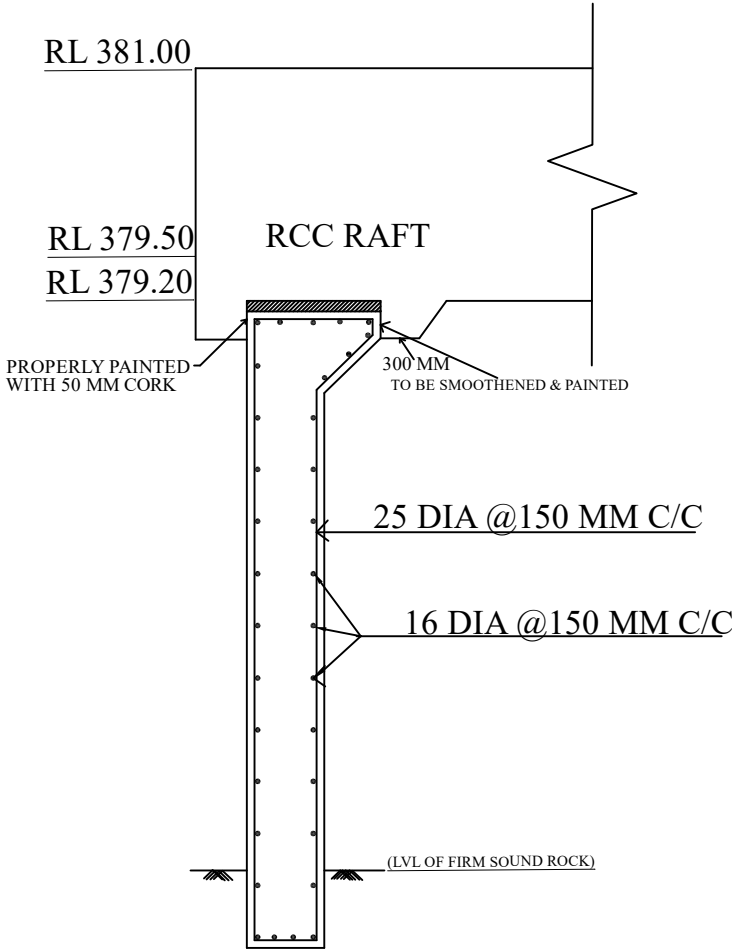
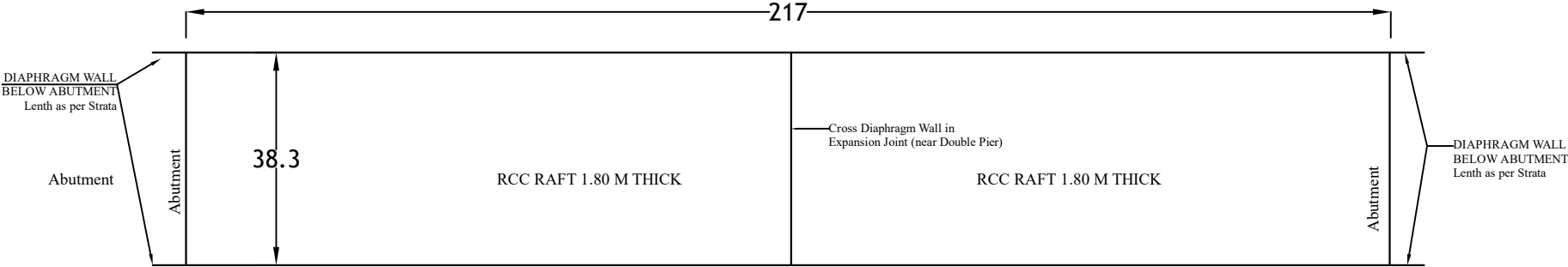





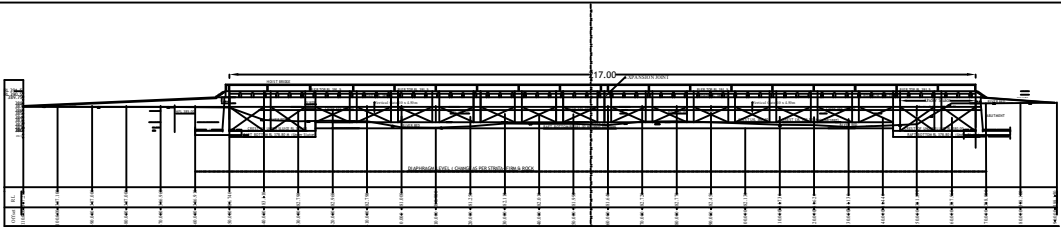
Provisional Drawing



SECTION OF RCC RAFT

GOVERNMENT OF CHHATTISGARH		
WATER RESOURCES DEPARTMENT		
WATER RESOURCES DIVISION KUNKURI		
Construction of Bagiya Barrage & Pressurised Lift Irrigation Scheme in Jashpur District		
PLAN & SECTION OF RCC DIAPHRAGM WALL		
DRAWN BY:  SUB ENGINEER-ASSISTANT ENGINEER	CHECKED BY -	CHECKED BY -
CHECKED BY -	ASSISTANT ENGINEER (D) Shyam Barnai Project Circle, Ambikapur	ASSISTANT ENGINEER (D) Husdeo Ganga Basin W.R.Dapt, Ambikapur
CHECKED BY -	CHECKED BY :	EXECUTIVE ENGINEER (D) Husdeo Ganga Basin W.R.Dapt, Ambikapur
CHECKED BY -	EXECUTIVE ENGINEER (D) Syahyam Barnai Project Circle, Ambikapur	RECOMMENDED BY-
SUBMITTED BY -  SUB DIVISIONAL OFFICER W.R. Sec. Division Kunkuri	RECOMMENDED BY:	SUPERINTENDING ENGINEER (D) Husdeo Ganga Basin W.R.Dapt, Ambikapur
EXECUTIVE ENGINEER Water Resources Division Kunkuri	SUPERINTENDING ENGINEER Shyam Barnai Project Circle, Ambikapur	PROVISIONALLY APPROVED BY:  CHIEF ENGINEER Husdeo Ganga Basin W.R.Dapt, Ambikapur
DRAWING NO.		

Provisional Drawing



HYDRAULIC PARTICULARS	
CATCHMENTS AREA	1386.08 Sqkm
EXPECTED FLOOD	3406.48 cumecs
HFL AT OBSERVED HIGHEST FLOOD	385.00m
POND LEVEL	386.00 m
RIVER BED LEVEL	381.00 m
BRIDGE LEVEL	389.75 m
TOP PIER LEVEL	391.50 m
PERMISSIBLE AFFLUX	0.60 m
CREST LAEVEL OF MAIN BARRAGE	382.50 m
CREST LAEVEL OF UNDER SLUICE	381.00 M
ROUGHNESS COEFFICIENT	0.018
RIVER BED SLOPE	1.00
LACIY'S SILT FACTOR	0.33
SAFE EXIT GRADIENT	0.33
LOCATION	Latitude -
	Longitude -

REFERENCE TO CODES OF PIS	
CEMENT	PSC IS 455-1989 OPC IS 269-1989/3112-1989, 12269-1987 PCC IS 1489-1991
AGGREGATE	PA IS 383-1982 2116-1985 1543-1977 CA IS 383-1982 PCC IS 456-2000
CONCRETE	PCC IS 456-2000
REINFORCEMENTS RCC	IS 456-2000 FE550-IS 1786-1985

ASSUMPTIONS

CO-EFFICIENT OF FRICTION BETWEEN SOIL & CONCRETE 0.60  
FACTOR OF SAFETY AGAINST OVER TURNING >1.50  
FACTOR OF SAFETY AGAINST SLIDING >1.25

- Notes
1. ALL ITEMS OF WORK SHALL BE EXECUTED CONFIRMING TO THE RELEVANT CODES OF BUREAU OF INDIAN STANDARDS AND RELEVANT IRC SPECIFICATIONS
  2. UNLESS OTHERWISE SPECIFIED, ALL DIMENSION ARE IN MM EXCEPT ELEVATIONS WHICH ARE IN METER AND NO DIMENSION SHOULD BE SCALED FROM DRAWING.
  3. SHOULD ANY DISCREPANCIES BE NOTICED BEFORE/DURING EXECUTION BASING THE DATA ON WHICH THE APPROVED DRAWING IS PREPARED AND THOSE ACTUALLY AT SITE OR SHOULD IT BE FELT NECESSARY TO EFFECT CHANGES IN THE APPROVED DRAWING TO SUIT THE ALTERED SITE CONDITIONS, THEN THE FACT SHOULD IMMEDIATELY BE BROUGHT TO THE NOTICE OF THE APPROVING AUTHORITY AND NO CHANGE WHATSOEVER, BE MADE IN IN THE APPROVED DRAWING WITHOUT PRIOR APPROVAL OF THE APPROVING AUTHORITY.
  4. IF AT ANY STAGE ANY ANOMALY IS NOTICED IN THE DRAWING OR THERE IS ANY DOUBT THE SAME SHALL HAVE TO BE REFERRED TO THE APPROVING AUTHORITY FOR CLARIFICATION WHEREVER NECESSARY AND NO ALTERATION OR OMISSION SHOULD BE MADE AT SITE WITHOUT APPROVAL FROM THE APPROVING AUTHORITY.
  5. BACK FILLING BEHIND ABUTMENTS, WING WALLS, RETURN WALLS AND INSIDE CANAL BANK SLOPE SHOULD BE DONE WITH SELECTED SOIL IN LAYERS NOT EXCEEDING 0.15 M. THICK WELL WATERED AND RAMMED TO ACHIEVE THE REQUIRED PERCENTAGE OF COMPACTION AND DENSITY.
  6. DEVELOPMENT LENGTH & LAP LENGTH OF THE REINFORCEMENT BARS SHALL BE PROVIDED AS PER IS 456-2000. BENDING OF THE REINFORCEMENT BAR AND PLACING OF SUPPORTING CHAIRS SHALL BE AS PER IS - 2002
  7. MIXING, PLACING & COMPACTION OF ALL CONCRETE WORKS SHOULD BE DONE IN ACCORDANCE WITH IS 456-2000.
  8. WEEP HOLES AT SUITABLE INTERVALS MAY BE PROVIDED IN ABUTMENTS AND WING WALLS ABOVE POND LEVELS AS PER APPENDIX 6 OF IRC-78.
  9. PROTECTION WORK REQUIRED IF ANY SHALL BE PROVIDED AS PER SITE CONDITIONS IN ACCORDANCE WITH RELEVANT CODES OF BUREAU OF INDIAN STANDARDS
  10. THIS DRAWING PREPARED IS BASED ON DRILL HOLE DATA AND TREATED AS TENTATIVE. AFTER OVER BURDEN CLEARANCE AND OBTAINING REPORT OF ENGINEERING GEOLOGISTS THE WORK MAY BE EXECUTED IN THE DESIGN CRITERIA AND DRAWING SATISFIES WITH THE FOUNDATION CONDITION, ELSE IT MAY BE REPORTED TO THE COMPETENT AUTHORITY FOR NECESSARY REVISION OF THIS DESIGN AND DRAWING.
  11. DRAINAGE ARRANGEMENTS SHOWN IN THE DRAWING HAS BEEN CONSIDERED TO BE ADOPTED ON PERMEABLE FOUNDATION STRATA. ANY CHANGES IN FOUNDATION STRATA OTHER THAN THE AFORESAID CRITERIA, REFERENCE MAY BE MADE TO THE COMPETENT AUTHORITY FOR REVISION OF THIS DRAWING ON DRAINAGE ARRANGEMENTS.
  12. THE SECTION OF WING/RETURN WALLS ARE TENTATIVE WHICH SHALL BE FINALIZED IN DETAIL DESIGN FOR CONSTRUCTION DRAWINGS.
  13. THE FOUNDATION PROTECTION OF ABUTMENTS AND PIERS IS TENTATIVE WHICH SHALL BE FINALIZED IN DETAIL DESIGN FOR CONSTRUCTION DRAWINGS.
  14. THE THICKNESS OF RCC RAFT FOR BRIDGE AND PORTION HAS BEEN CONSIDERED 2.00 M



Certify that the bases along the axis of Barrage have been taken & found

SUB ENGINEER  
W.R. Sub Division  
KUNKURJI

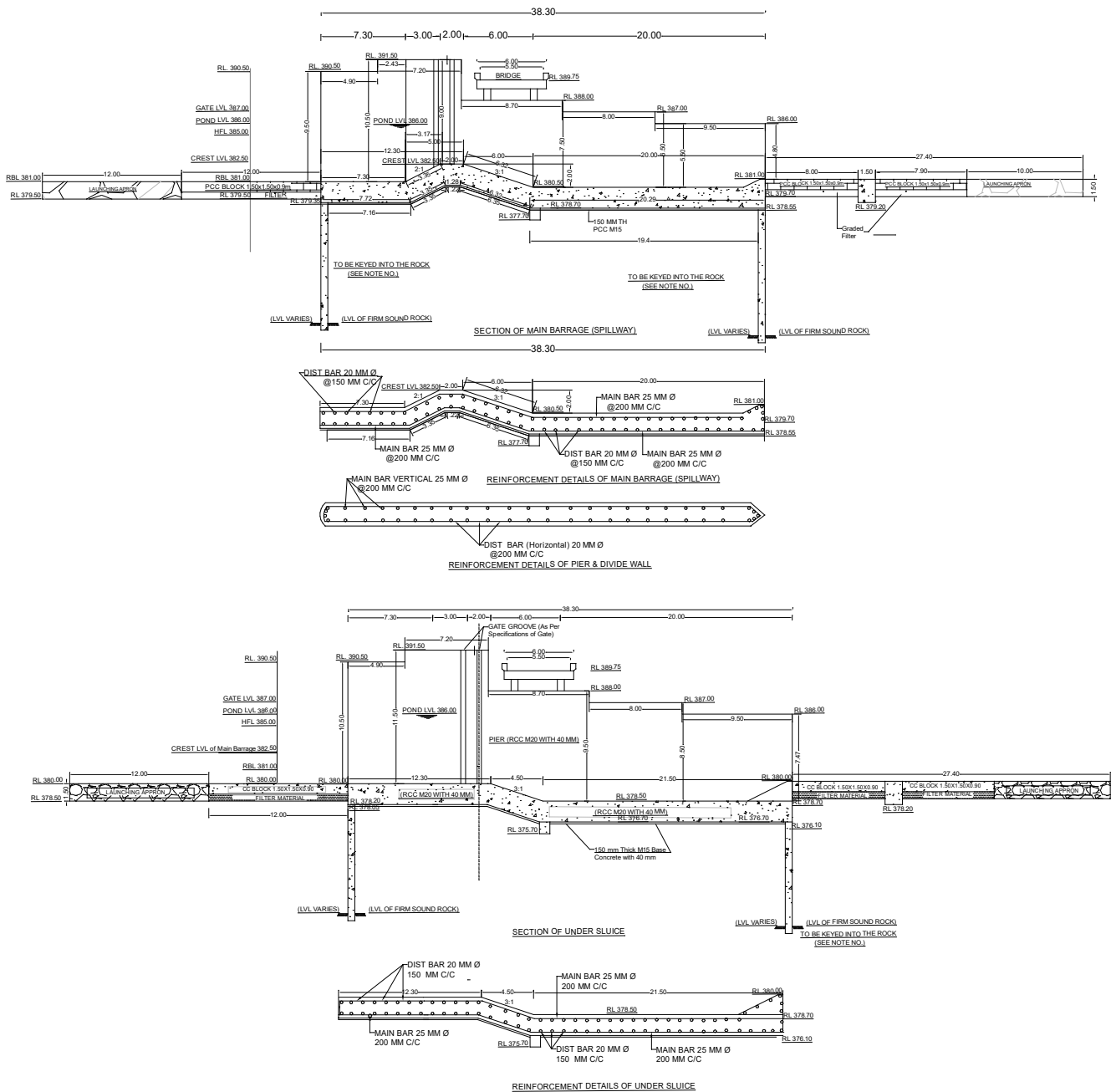
SUB DIVISIONAL OFFICER  
W.R. Sub Division  
KUNKURJI

EXECUTIVE ENGINEER  
Water Resources Division  
Kunkur

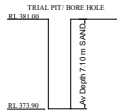
PLAN OF BAGIYA BARRAGE

GOVERNMENT OF CHHATTISGARH	
WATER RESOURCES DEPARTMENT	
WATER RESOURCES DIVISION KUNKURJI	
Construction of Bagiya Barrage & Pipedreamless LRI Irrigation Scheme in Jagpur District	
GENERAL LAYOUT PLAN & SECTIONAL ELEVATION OF BARRAGE	
Sub Engineer W.R. Sub Division KUNKURJI	Sub Divisional Officer W.R. Sub Division KUNKURJI
Executive Engineer Water Resources Division Kunkur	Executive Engineer Water Resources Division Kunkur
Executive Engineer Water Resources Division Kunkur	Executive Engineer Water Resources Division Kunkur
Executive Engineer Water Resources Division Kunkur	Executive Engineer Water Resources Division Kunkur
Executive Engineer Water Resources Division Kunkur	Executive Engineer Water Resources Division Kunkur

Provisional Drawing



- Notes
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  2. UNLESS OTHERWISE SPECIFIED, ALL DIMENSION ARE IN MM EXCEPT ELEVATIONS WHICH ARE IN METER AND NO DIMENSION SHOULD BE SCALED FROM DRAWING.
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  6. DEVELOPMENT LENGTH & LAP LENGTH OF THE REINFORCEMENT BARS SHALL BE PROVIDED AS PER IS 456:2000. BENDING OF THE REINFORCEMENT BAR AND PLACING OF SUPPORTING CHAIRS SHALL BE AS PER IS - 2502.
  7. MIXING, PLACING & COMPACTION OF ALL CONCRETE WORKS SHOULD BE DONE IN ACCORDANCE WITH IS 456:2000.
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  14. THE THICKNESS OF RCC RAFT FOR BRIDGE AND PORTION HAS BEEN CONSIDERED 2.00 M.



















Verify that the bore holes along the axis of Barrage have been taken & found correct

SUB ENGINEER  
W.R. Sub Division  
KUNKURI

SUB DIVISIONAL OFFICER  
W.R. Sub Division  
KUNKURI

EXECUTIVE ENGINEER  
Water Resources Division  
Kunkuri

GOVERNMENT OF CHHATTISGARH			
WATER RESOURCES DEPARTMENT			
WATER RESOURCES DIVISION KUNKURI			
Construction of Bagiya Barrage & Pressurised Lift Irrigation Scheme in Jashpur District			
SECTION OF UNDER SLUICE & MAIN BARRAGE			
DRAWN BY:  SUB ENGINEER/ASSISTANT ENGINEER	CHECKED BY:-  SUB DIVISIONAL OFFICER W.R. Sub Division KUNKURI	CHECKED BY:-  ASSISTANT ENGINEER (D) Shyam Bama Project Circle, Ambikapur	CHECKED BY:-  ASSISTANT ENGINEER (D) Haseo Ganga Basin W.R. Dept., Ambikapur
CHECKED BY:-  SUB DIVISIONAL OFFICER W.R. Sub Division KUNKURI	CHECKED BY:-  ASSISTANT ENGINEER (D) Shyam Bama Project Circle, Ambikapur	CHECKED BY:-  ASSISTANT ENGINEER (D) Haseo Ganga Basin W.R. Dept., Ambikapur	CHECKED BY:-  ASSISTANT ENGINEER (D) Haseo Ganga Basin W.R. Dept., Ambikapur
CHECKED BY:-  ASSISTANT ENGINEER Water Resources Division - Kunkuri	CHECKED BY:-  ASSISTANT ENGINEER (D) Shyam Bama Project Circle, Ambikapur	CHECKED BY:-  ASSISTANT ENGINEER (D) Haseo Ganga Basin W.R. Dept., Ambikapur	CHECKED BY:-  ASSISTANT ENGINEER (D) Haseo Ganga Basin W.R. Dept., Ambikapur
SUBMITTED BY:  EXECUTIVE ENGINEER Water Resources Division Kunkuri	CHECKED BY:-  ASSISTANT ENGINEER (D) Shyam Bama Project Circle, Ambikapur	CHECKED BY:-  ASSISTANT ENGINEER (D) Haseo Ganga Basin W.R. Dept., Ambikapur	CHECKED BY:-  ASSISTANT ENGINEER (D) Haseo Ganga Basin W.R. Dept., Ambikapur
DRAWING NO.			