

Diagram showing the cross-section of the bridge with the following details:

- Length of Bridge:** 108.00 Meter (3 Span of P.C. T-Beam Girder Slab @ 1 Span 38.00m + 2 Span 35.00m)
- Formation Level:** 101.165M
- Ground Level:** 101.165M
- Bridge Structure:** 3 Spans of P.C. T-Beam Girder Slab
- Elevations:**
  - Left Abutment: R.L. 97.000M, R.L. 95.200M, R.L. 80.000M
  - First Pier: H.F. 1.97.450M, R.L. 94.000M, R.L. 92.200M, R.L. 75.000M
  - Second Pier: R.L. 94.000M, R.L. 92.200M, R.L. 75.000M
  - Right Abutment: R.L. 97.000M, R.L. 95.200M, R.L. 80.000M
- Table of Elevations:**

Station	Ground Level	Bridge (in section)
0+00	98.315	98.315
0+10	97.325	97.325
0+20	96.400	96.400
0+30	95.150	95.150
0+40	94.350	94.350
0+50	93.850	93.850
0+60	94.670	94.670
0+70	94.400	94.400
0+80	94.250	94.250
0+90	93.850	93.850
0+100	93.850	93.850
0+110	93.850	93.850
0+120	93.850	93.850
0+130	93.850	93.850
0+140	93.850	93.850
0+150	93.850	93.850
0+160	93.850	93.850
0+170	93.850	93.850
0+180	93.850	93.850
0+190	93.850	93.850
0+200	93.850	93.850



SECTIONAL ELEVATION OF ABUTMENT A1 &amp; A2

SECTIONAL ELEVATION OF PIER AT END SPAN

SECTION OF PIER



PLAN OF ABUTMENT & PILE CAP A1 & A2

PLAN OF PIER &amp; PILE CAP P1 &amp; P2



P1

P2

A2

CERTIFICATE

Certified that boring has been done at every foundation point as shown in bore chart is correct.

SUB ENGINEER


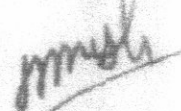


S.D.O.  
P.W.D. BRIDGE CONST.  
SUB DIVISION No-1 RAIGARH

E.E.  
P.W.D. BRIDGE CONST.  
DIVISION RAIGARH



INTERMEDIATE DIAPHRAGM

1	TYPE OF BRIDGE	ARCH LEVEL
2	LENGTH OF BRIDGE	100.00 METER
3	ABUTMENT	90.00 METER (2 X 4.50 M)
4	SPAN ARRANGEMENT	3 SPAN OF P.S.C. T-BEAM GIRDER SLAB (02 SPAN 35.00M & 01 SPAN 30.00M)
5	FORMATION LEVEL	R.L. 101.165 M
6	OVER ALL WIDTH	12.000 M
7	CARRIAGE WAY	11.000 M
8	CATWALKS AREA	174.00 SQ. KM ✓
9	DESIGN DISCHARGE	1140.806 CUM/SEC ✓
10	DESIGN VELOCITY	4.670 M/SEC
11	NORMAL SCOUR DEPTH	7.170M
	A. PIER	R.L. 83.110 M
	B. ABUTMENT	R.L. 88.340 M
12	R.F.L	R.L. 97.450 M
13	L.W.L	R.L. 90.200M
14	TYPE OF FOUNDATION	
	A. PIER	END BEARING PILE
	B. ABUTMENT	END BEARING PILE
15	FOUNDATION LEVEL	
	A. PIER	P1 & P2-R/L 75.000M
	B. ABUTMENT	A1 & A2 R/L 80.000 M
16	TYPE OF SUB STRUCTURE	
	A. PIER	RCC SOLID CIRCULAR TYPE
	B. ABUTMENT	RCC WALL TYPE
17	TYPE OF BEARING	ELASTOMERIC HYDROPHONE BEARINGS
18	TYPE OF SUPERSTRUCTURE	P.S.C. T-BEAM GIRDER SLAB
19	WEARING COAT & KERB	ASPHALTIC WEARING COAT (40MM B.C.+25MM MASTIC)
20	R.C.C.DRAINAGE CHANNEL	AS PER STD DRAWINGS OF MORT & H
21	DRAINAGE JOINT	STRIP SEAL DRAINAGE JOINT
22	APPROACH SLAB	AS PER STRUCTURAL ONG
23	WATER SPOUT	AS PER STD DRAWINGS OF MORT & H
24	NAME PLATE	AS PER STD DRAWINGS
25	DESIGN LOADING	one lane @ 6000 kg/m <sup>2</sup> for 20 years plus 10% for one lane of heavy vehicles running across 3 lanes of road hold 17 m
26	S.B.C	
27	THIS DRC IS ONLY FOR ESTIMATE PURPOSE PLEASE REFER SEPARATE DRC FOR DESIGN	
28	ALL DIMENSIONS ARE IN MM & RL ARE IN METER OTHERWISE SPECIFIED.	

OFFICE OF THE CHIEF ENGINEER			
P.W.D. BRIDGE CONSTRUCTION ZONE RAIPUR (C.G.)			
			
J.P. CHOUDHARY	RAMESH KUMAR VERMA	M.L. UKEY	M.L. URAON
S.D.O.	E.E.	S.E.	C.E.
TITLE		GENERAL ARRANGEMENT DRAWING	
R.L. SARTHI SUB ENGINEER.		CONSTRUCTION OF H.L. BRIDGE ACROSS SAPANA NALLA ON TILGA- BHAGORA ROAD IN K.M.7/8 (M.D.R.)	
Dwg. No. -		Date -	Scale -