CD STRUCTURE DETAILS

Improvement proposal for Bridges

Existing bridges to be re-constructed/newly constructed

1. The existing bridges at the following location shall be re-constructed as new Structures:-

(a) Major Bridges – 2no.

Major Bridges Details

S.No.	Design Chainage	Existing Chainage	Existing			Proposed			
			Structure Type	Span (m)	Width of bridge (m)	Recommendation	Span	Structure Type	Width of Bridge (m)
1	20+640	22+180	-	-	-	New Construction	3x30m	PSC Girder	16m
2	42+800	49+860	Bailey Bridge	3x35	4.4	New Construction	4x30m	PSC Girder	16m

(b) Minor Bridges – 15no.

Table 7.26: Minor Bridges Details

S. No.	Desing Chanage(Km)	Existing Chainage (Km)	Type of structures (RCC Box, Pipe, Slab Box, Masonry Arch)	Span Arrangement (No. X Length) (m)	Width (m)	Proposal			Proposed Width
					Total (m)	Recommendation	Type	Span	
1	16+900	17+925	Steel Bailey Bridge	1x16	3.40	Reconstruction	Solid Slab	1X10	16.00
2	17+155	18+245	Damaged structure	–	–	New construction	Solid Slab	1X10	16.00
3	-	20+905	–	–	–	New construction	T Beam Girder	1x16	16.00
4	22+365	24+245	RCC SLAB	1x9	6.50	Reconstruction	Solid Slab	1X10	16.00
5	22+920	24+870	RCC SLAB	1x9	6.80	Reconstruction	Solid Slab	1X10	16.00
6	27+075	30+100	Steel Bailey Bridge	1x16.7	4.10	Reconstruction	T Beam Girder	1X25	16.00

7	28+075	31+635	RCC SLAB	1x9	6.60	Reconstruction	Solid Slab	1X10	16.00
8	29+400	33+760	Steel Bailey Bridge	1x25.4	4.10	Reconstruction	T Beam Girder	1X25	16.00
9	29+480	33+840	Steel Bailey Bridge	1x16.7	4.10	Reconstruction	T Beam Girder	1X25	16.00
10	29+640	34+010	Steel Bailey Bridge	1x13.7	4.10	Reconstruction	T Beam Girder	1X25	16.00
11	29+750	34+220	Steel Bailey Bridge	1x16.7	4.10	Reconstruction	T Beam Girder	1X25	16.00
12	29+850	34+390	Steel Bailey Bridge	1x16.7	4.10	Reconstruction	T Beam Girder	1X25	16.00
13	29+950	34+575	Steel Bailey Bridge	1x16.7	4.10	Reconstruction	T Beam Girder	1X25	16.00
14	32+085	37+410	Steel Bailey Bridge	1x25.8	4.10	Reconstruction	T Beam Girder	1X25	16.00
15	43+620	50+675	T- Beam Girder	1x16	8.00	Reconstruction	T Beam Girder	1x16	16.00

Improvement Proposal of Culverts

i. Reconstruction of existing culverts:

The existing culverts at the following locations shall be re-constructed as new culverts:

(A) Box Culverts – 14no.

Table 7.27: Reconstruction Culverts Details

S.No	Desing Chainage	Existing Chainage	Existing	Proposed		
			Structure Type	Structure	Span (m)	Minimum Proposed width
1	16+140	17+130	HPC	BOX	1X2X2	12.00m
2	16+270	17+295	HPC	BOX	1X2X2	12.00m
3	16+390	17+405	RCC SLAB	BOX	1X2X2	12.00m
4	16+585	17+600	HPC	BOX	1X2X2	12.00m
5	16+820	17+845	RCC SLAB	BOX	1X2X2	12.00m
6	17+000	18+035	RCC SLAB	BOX	1X2X2	12.00m
7	22+110	23+960	BOX	BOX	1X2X2	12.00m
8	27+600	30+985	HPC	BOX	1X2X2	12.00m
9	29+220	33+495	HPC	BOX	1X3X3	12.00m
10	30+105	34+855	HPC	BOX	1X2X2	12.00m
11	30+905	35+855	HPC	BOX	1X2X2	12.00m
12	31+250	36+300	HPC	BOX	1X2X2	12.00m
13	33+260	39+060	Arch	BOX	1X3X3	12.00m

14	43+370	50+430	HPC	BOX	1X2X2	12.00m

ii. Additional New culverts:

Additional new culverts shall be constructed as per particulars given in the table below:

a. Box Culvert –45 Nos.

Table 7.30: Box Culverts Details (New Construction)

S.No.	Location (Design Chainage)	Dia. Of Pipe/Span Length (m)	Min. Width of Culvert (m)
1.	17+850	1X3X3	12.00
2.	18+120	1X3X3	12.00
3.	18+440	1X3X3	12.00
4.	19+175	1X3X3	12.00
5.	20+350	1X3X3	12.00
6.	21+180	1X3X3	16.00
7.	21+540	1X2X2	12.00
8.	21+770	1X2X2	12.00
9.	23+200	1X2X2	12.00
10.	23+700	1X2X2	12.00
11.	24+150	1X2X2	12.00
12.	24+760	1X2X2	12.00
13.	25+090	1X2X2	12.00
14.	26+740	1X2X2	12.00
15.	30+580	1X2X2	12.00
16.	31+450	1X2X2	12.00
17.	31+730	1X2X2	12.00
18.	32+700	1X2X2	12.00
19.	32+940	1X2X2	12.00
20.	33+900	1X2X2	12.00
21.	34+350	1X2X2	12.00
22.	34+600	1X2X2	12.00
23.	35+200	1X2X2	12.00
24.	35+530	1X2X2	12.00
25.	35+800	1X2X2	12.00
26.	36+000	1X2X2	12.00
27.	36+250	1X2X2	12.00
28.	36+500	1X2X2	12.00
29.	36+700	1X2X2	12.00
30.	37+090	1X2X2	12.00
31.	37+580	1X2X2	12.00
32.	37+720	1X2X2	12.00
33.	38+000	1X2X2	12.00
34.	38+450	1X2X2	12.00
35.	38+680	1X2X2	12.00
36.	39+120	1X2X2	12.00

37.	39+400	1X2X2	12.00
38.	39+860	1X2X2	12.00
39.	40+100	1X2X2	12.00
40.	40+410	1X2X2	12.00
41.	40+730	1X2X2	12.00
42.	40+930	1X2X2	12.00
43.	41+350	1X2X2	12.00
44.	41+550	1X2X2	12.00
45.	41+800	1X2X2	12.00

Table 7.31: Summary of Culvert Proposal

Reconstruction	**14**
New construction (Box Culverts)	**45**