

ESP-001-
2A Rev.00



PROJECT ENGINEERING & SYSTEMS DIVISION
(Annexure-2 For OHE Works)
(Site of The Project for Birlanagar-MP Border (Chambal
Bridge Starting))

Std. / Doc. Number

Annexure-2

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Annexure-2
Site of The Project for Birlanagar-MP Border



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1.0 SITE

The Site of the Railway Project comprises the section Birla Nagar Jn to MP border (Chambal river bridge starting) commencing from km 1227/.67 to km 1326/.0654 i.e. the section in the State of M.P in the North Central Railway zone. The land and other structures comprising the Site are described below:

2.0 Details of existing structures and facilities on adjoining railway track (For doubling or 3rd line projects or electrification)**2.1 PERMANENT WAY:**

Details of the Permanent Way on the Right of Way are:

SL. No	No. of railway line	km from	km to	Route km	Min and Max Implantation (if electrified)	Remarks
1	Single line	1227/.67	1326/.0654	99	Not Electrified	Birla Nagar- MP border (Chambal river bridge start)

2.2 IMPORTANT BRIDGES:

The Site includes the following Important Bridges:

SL. No.	Bridge No. and location (km)	Type of Structure			No. of Spans with span length (m)	Width (m)
		Foundation	Substructure	Superstructure		
Birla Nagar- MP border (Chambal river bridge start)						
1	1313/1 1313.949	OWF	CC	OW GIRDER	8 45.70	1.6

2.3 MAJOR BRIDGES:

The Site includes the following Major Bridges:

SL. No	Bridge No. and location (km)		Type of Structure			No. of spans with span length (m)	Width (m)
	Bridge No.	Location	Foundation	Substructure	Superstructure		
(A)	Birla Nagar- MP border (Chambal river bridge start)						
1	1250/1	1250/8-9	Open	CC	RCC SLAB	1 6.100	6.1
2	1264/1	1264/4-5	Open	CC	PLATE GIRDER	1 18.30	6.1
3	1273/2	1273/7-8	Open	cc	PLATE GIRDER	2 18.30	6.1



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4	1285/1	1285/2-3	Open	cc	PLATE GIRDER	1	18.30	6.1
5	1304/2	1304/7-8	Open	cc	PLATE GIRDER	1	18.30	6.1

2.4 MINOR BRIDGES/CULVERTS

The Site includes the following Minor Bridges and culverts:

SL. No.	Bridge No.	location (km)	Type of Structure			No. of spans with span length (m)		Width (m)
			Foundation	Substructure	Superstructure	No	Span	
(A)	Birla Nagar- MP border (Chambal river bridge start)							
1	1229/1	1229/1	Open	CC	RCC SLAB	1	3.962	6.1
2	1229/2	1229/91230/0	Open	CC	RCC SLAB	3	3.350	6.1
3	1230/1	1230/3	Open	CC	RCC BOX	1	1.200	6.1
4	1231/1	1231/2-3	Open	CC	RCC SLAB	1	2.000	6.1
5	1231/1A	1231/2-3	Open	CC	RCC BOX	1	5.000	6.1
6	1231/2	1231/91232/0	Open	CC	RCC SLAB	1	3.500	6.1
7	1232/1	1232/2-3	Open	CC	RCC SLAB	1	3.500	6.1
8	1232/1A	1232/6-7	Open	CC	RCC BOX	1	5.000	6.1
9	1232/2	1232/7-8	Open	CC	RCC BOX	1	1.200	6.1
10	1232/3	1232/91233/0	Open	CC	RCC SLAB	1	3.000	6.1
11	1233/1	1233/7-8	Open	CC	RCC BOX	1	1.200	6.1
12	1233/2	1233/8-9	Open	CC	PIPE	1	1.200	6.1
13	1234/1	1234/4-5	Open	CC	RCC SLAB	1	3.500	6.1
14	1234/ 1A	1234/8-9	Open	CC	RCC BOX	1	5.000	6.1
15	1235/1	1235/2-3	Open	CC	RCC SLAB	1	2.500	6.1
16	1235/2	1235/7-8	Open	CC	RCC SLAB	1	3.500	6.1
17	1236/1	1236/0-1	Open	CC	RCC BOX	1	5.000	6.1
18	1237/1	1237/2-3	Open	CC	RCC BOX	1	5.000	6.1
19	1238/1	1238/1-2	Open	CC	PIPE	2	1.200	6.1
20	1238/2	1238/5	Open	CC	RCC SLAB	2	3.500	6.1
21	1239/1A	1239/1-2	Open	CC	RCC BOX	1	5.000	6.1
22	1239/1	1239/4-5	Open	CC	PIPE	2	1.200	6.1
23	1240/1	1240/4-5	Open	CC	RCC SLAB	2	3.500	6.1
24	1240/2	1240/7-8	Open	CC	RCC SLAB	1	2.000	6.1
25	1240/ 2A	1240/8-9	Open	CC	RCC BOX	1	5.000	6.1
26	1240/3	1240/91241/0	Open	CC	RCC SLAB	1	2.000	6.1
27	1241/1	1241/1-2	Open	CC	PIPE	1	1.200	6.1
28	1241/2	1241/3-4	Open	CC	PIPE	1	1.200	6.1

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29	1242/1	1242/1-2	Open	CC	RCC SLAB	1	3.500	6.1
30	1243/1	1243/6-7	Open	CC	RCC SLAB	1	2.440	6.1
31	1244/1	1244/2-3	Open	CC	RCC SLAB	1	2.440	6.1
32	1246/1	1246/4-5	Open	CC	RCC SLAB	2	1.830	6.1
33	1246/2	1246/6-7	Open	CC	RCC BOX	1	5.000	6.1
34	1247/1	1247/0-1	Open	CC	RCC SLAB	2	6.100	6.1
35	1247/2	1247/7-8	Open	CC	RCC SLAB	2	6.100	6.1
36	1247/2A	1247/7-8	Open	CC	RCC BOX	1	5.000	6.1
37	1248/1	1248/4-5	Open	CC	RCC SLAB	1	1.220	6.1
38	1248/2	1248/8-9	Open	CC	RCC SLAB	2	4.570	6.1
39	1249/1	1249/0-1	Open	CC	RCC SLAB	2	6.100	6.1
40	1249/2	1249/7-8	Open	CC	RCC BOX	1	5.500	6.1
41	1250/2	1250/91251/0	Open	CC	RCC SLAB	3	6.100	6.1
42	1250/3	1250/91251/0	Open	CC	RCC SLAB	1	3.05	6.1
43	1251/1	1251/4-5	Open	CC	RCC SLAB	1	1.220	6.1
44	1251/2	1251/8-9	Open	CC	RCC SLAB	2	1.220	6.1
45	1252/1B	1252/0-1	Open	CC	RCC BOX	1	5.000	6.1
46	1252/1	1252/4-5	Open	CC	RCC SLAB	2	6.100	6.1
47	1252/1A	1252/6-7	Open	CC	RCC BOX	1	5.000	6.1
48	1252/2	1252/7-8	Open	CC	RCC SLAB	2	3.05	6.1
49	1253/1	1253/2-3	Open	CC	RCC SLAB	2	3.660	6.1
50	1253/2	1253/3-4	Open	CC	RCC BOX	1	5.000	6.1
51	1254/1	1254/8-9	Open	CC	RCC SLAB	1	1.220	6.1
52	1255/1A	1255/1-2	Open	CC	RCC BOX	1	5.000	6.1
53	1255/1	1255/4-5	Open	CC	RCC SLAB	1	2.440	6.1
54	1255/2	1255/6-7	Open	CC	RCC SLAB	1	3.660	6.1
55	1255/3	1255/6-7	Open	CC	RCC BOX	1	5.000	6.1
56	1256/1	1256/6-7	Open	CC	RCC BOX	4	1.200	6.1
57	1257/1A	1257/0-1	Open	CC	RCC BOX	1	5.000	6.1
58	1257/1	1257/3-4	Open	CC	RCC BOX	1	1.200	6.1
59	1257/2	1257/5-6	Open	CC	RCC BOX	4	1.200	6.1
60	1258/1	1258/3-4	Open	CC	RCC BOX	1	1.200	6.1
61	1258/2	1258/8-9	Open	CC	RCC BOX	4	1.800	6.1
62	1260/1	1260/0-1	Open	CC	RCC BOX	1	1.200	6.1
63	1260/2	1260/1-2	Open	CC	RCC BOX	1	1.000	6.1
64	1261/1A	1261/5-6	Open	CC	RCC BOX	1	5.000	6.1
65	1261/1	1261/6-7	Open	CC	RCC BOX	1	1.200	6.1
66	1262/1	1262/5-6	Open	CC	RCC BOX	2	1.200	6.1
67	1263/1A	1263/5-6	Open	CC	RCC BOX	1	5.000	6.1
68	1263/1	1263/6-7	Open	CC	RCC BOX	2	1.200	6.1

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69	1264/2	1264/7-8	Open	CC	RCC BOX	1	5.00	6.1
70	1265/1A	1265/4-5	Open	CC	RCC BOX	1	5.000	6.1
71	1265/1	1265/5-6	Open	CC	RCC BOX	3	1.000	6.1
72	1266/1	1266/0-1	Open	CC	RCC BOX	3	1.200	6.1
73	1266/2	1266/4-5	Open	CC	RCC BOX	2	1.200	6.1
74	1267/1	1267/91268/0	Open	CC	RCC BOX	2	1.500	6.1
75	1268/1	1268/6-7	Open	CC	RCC BOX	2	1.200	6.1
76	1268/2	1268/8-9	Open	CC	RCC BOX	1	1.200	6.1
77	1269/1	1269/3-4	Open	CC	RCC BOX	4	1.200	6.1
78	1270/ 1	1270/6-7	Open	CC	RCC BOX	1	5.000	6.1
79	1271/1	1271/4-5	Open	CC	RCC BOX	4	1.200	6.1
80	1272/1	1272/4-5	Open	CC	RCC BOX	2	1.200	6.1
81	1273/1	1273/5-6	Open	CC	RCC BOX	1	1.200	6.1
82	1273/3	1273/7-8	Open	CC	RCC BOX	1	5.000	6.1
83	1275/1	1275/8-9	Open	CC	RCC BOX	1	5.000	6.1
84	1276/1	1276/0-1	Open	CC	RCC BOX	2	1.200	6.1
85	1277/1A	1277/5-6	Open	CC	RCC BOX	1	5.000	6.1
86	1277/1	1277/6-7	Open	CC	RCC BOX	3	1.800	6.1
87	1279/1	1279/3-4	Open	CC	RCC BOX	4	1.200	6.1
88	1280/1	1280/7-8	Open	CC	RCC BOX	1	1.200	6.1
89	1280/1A	1280/8-9	Open	CC	RCC BOX	1	5.000	6.1
90	1281/1	1281/6-7	Open	CC	RCC BOX	2	1.000	6.1
91	1281/1A	1281/6-7	Open	CC	RCC BOX	1	5.000	6.1
92	1282/1	1282/91283/0	Open	CC	RCC BOX	2	1.200	6.1
93	1283/1	1283/5-6	Open	CC	RCC BOX	2	1.200	6.1
94	1283/2	1283/6-7	Open	CC	RCC BOX	2	1.200	6.1
95	1284/1	1284/91285/0	Open	CC	RCC BOX	3	1.200	6.1
96	1285/1A	1285/2-3	Open	CC	RCC BOX	1	5.000	6.1
97	1286/1	1286/4-5	Open	CC	RCC BOX	1	5.00	6.1
98	1287/1	1287/0-1	Open	CC	RCC BOX	1	1.000	6.1
99	1287/2	1287/9	Open	CC	RCC BOX	1	1.000	6.1
100	1288/1	1288/3-4	Open	CC	RCC BOX	2	1.200	6.1
101	1289/1	1289/1-2	Open	CC	RCC BOX	1	1.000	6.1
102	1289/1A	1289/4-5	Open	CC	RCC BOX	1	5.000	6.1
103	1289/2	1289/8-9	Open	CC	RCC BOX	1	1.000	6.1
104	1290/1	1290/4-5	Open	CC	RCC BOX	1	1.000	6.1
105	1291/1	1291/2-3	Open	CC	RCC BOX	1	1.200	6.1
106	1291/2	1291/91292/0	Open	CC	RCC BOX	1	1.200	6.1
107	1292/1	1292/4-5	Open	CC	RCC BOX	1	5.000	6.1

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108	1292/1A	1292/5-6	Open	CC	RCC BOX	3	1.000	6.1
109	1294/1	1294/8-9	Open	CC	RCC BOX	3	1.200	6.1
110	1295/1	1295/7-8	Open	CC	RCC BOX	2	1.200	6.1
111	1296/1	1296/1-2	Open	CC	RCC BOX	3	1.200	6.1
112	1296/2	1296/5-6	Open	CC	RCC BOX	3	1.200	6.1
113	1297/1A	1297/2-3	Open	CC	RCC BOX	1	5.000	6.1
114	1297/1	1297/91298/0	Open	CC	RCC BOX	1	1.000	6.1
115	1298/1	1298/2-3	Open	CC	RCC BOX	1	1.000	6.1
116	1298/1A	1298/2-3	Open	CC	RCC BOX	1	5.000	6.1
117	1300/1	1300/3-4	Open	CC	RCC BOX	1	1.200	6.1
118	1300/2	1300/91301/1	Open	CC	RCC BOX	1	1.200	6.1
119	1301 / 1	1301/4-5	Open	CC	RCC BOX	1	5.000	6.1
120	1302/1	1302/1-2	Open	CC	RCC BOX	1	1.200	6.1
121	1302/2	1302/6-7	Open	CC	RCC BOX	1	2.000	6.1
122	1303 / 1	1303/7-8	Open	CC	RCC BOX	1	5.000	6.1
123	1304/1	1304/6-7	Open	CC	RCC SLAB	1	6.10	6.1
124	1307/1	1307.964	Open	CC	RCC BOX	1	3.00	6.1
125	1308/1A	1308/4-5	Open	CC	RCC BOX	1	5.000	6.1
126	1308/1	1308.979	Open	CC	RCC Box	1	1.20	6.1
127	1309/1	1309.947	Open	CC	RCC Box	1	1.20	6.1
128	1310/1	1310/4-5	Open	CC	RCC BOX	1	5.000	6.1
129	1311/1	1311.968	Open	CC	RCC Box	1	4.00	6.1
130	1312/1	1312.467	Open	CC	RCC Box	1	1.50	6.1
131	1312/2	1312/8-9	Open	CC	RCC BOX	1	5.000	6.1
132	1314/21A	1314/3-4	Open	CC	RCC BOX	1	5.000	6.1
133	1314/1	1314.613	Open	CC	RCC Box	2	4.00	6.1
134	1316/1	1316.037	Open	CC	RCC Box	2	5.00	6.1
135	1316/2	1316.952	Open	CC	RCC Box	1	4.00	6.1
136	1317/1	1317.327	Open	CC	RCC Box	2	3.00	6.1
137	1318/1	1318.018	Open	CC	RCC Box	1	4.00	6.1
138	1318/2	1318.394	Open	CC	RCC Box	3	3.00	6.1
139	1318/3	1318.598	Open	CC	RCC Box	2	4.00	6.1
140	1319/1	1319/0-1	Open	CC	RCC BOX	1	6.000	6.1
141	1320/1	1320.119	Open	CC	RCC Box	1	3.00	6.1
142	1320/1A	1320/1-2	Open	CC	RCC BOX	1	5.000	6.1
143	1320/2	1320.629	Open	CC	HP Culvert	1	1.20	6.1
144	1321/1	1321.753	Open	CC	RCC Box	1	2.00	6.1
145	1322/1	1322.675	Open	CC	HP Culvert	1	1.20	6.1
146	1322/2	1322.695	Open	CC	RCC Box	1	2.00	6.1



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147	1322/2A	1322/6-7	Open	CC	RCC BOX	1	5.000	6.1
148	1325/1	1325.635	Open	CC	RCC Box	3	3.00	6.1
149	1237/1A	1237/7-8	Open	CC	PSC G.B			6.1
150	1307/1A		Open	CC	GIRDER	1	2.44	6.1
151	1325/1A	1325.078	Open	CC	RCC- TBeam+RCC Solid slab	1	12.40	6.1

2.5 TUNNELS

SL. No.	Block Section	km from	km to	Remarks
(A)Birla Nagar-MP Border(Chambal river Bridge start) - NIL				

2.6 RAILWAY FLYOVERS

The Site includes the following Railway Fly Over:

SL. No.	Block Section	Bridge No and location (Km)	Type of Structure			Span (Nos. x length)	Width (m)
			Foundation	Sub- structure	Super- structure		
(A)Birla Nagar- MP Border(Chambal river Bridge start) - NIL							

2.7 ROAD UNDER-BRIDGES (RUB) / ROAD OVER-BRIDGES (ROB)

The Site includes the following RUB (Road under railway line)/ ROB (road over railway line):

SL. No.	Block section	Bridge No. and location(Km)		Type of Structure		Span (no. x length)	Width (m)	Height (m)	ROB/ RUB
		Bridge No.	Location (Km)	Foundation	Superstructure				
(A)Birla Nagar- MP Border(Chambal river Bridge start)									
1	Birla Nagar- MP Border(Chambal river Bridge start)	1307/1A	1307.964	RCC	Girder	1	2.44	6.1	FOB
2		1237/1A	1237/7-8	RCC	PSC Girder			6.1	ROB
3		1325/1A	1325.078	RCC	RCC T- Beam slab	1	12.40	6.1	ROB



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2.8 RAILWAY LEVEL CROSSINGS

SL. No.	Block Section	Chainage	LC No.	TVU / year	L C Classification	Remarks
Birla Nagar- MP Border(Chambal river Bridge start)						
1	BLNR-BBY	1230/3-4	4	24-08-15 2318 5	C	
2	SAC-RAKL	1243/3-4	15	24-08-15 7463	C	
3	SAC-RAKL	1244/3-4	16	24-08-15 5474	C	
4	RAKL-MLAR	1249/7-8	20	24-08-15 1054 4	C	
5	NNE-GOA	1259/4-5	28	24-08-15 9771	C	
6	GOA-SCN	1267/9-68/0	33	24-08-15 3552	C	
7	SONI-AXX	1283/5-6	40	04-11-15 2213 3	C	
8	AXX-AAH	1292/4-5	44	15-08-15 2580	C	
9	AAH-BIX	1296/2-3	45	15-08-15 2450	C	
10	AAH-BIX	1305/9- 1306/0	50	15-08-15 5487 0	C	
11	BIX-UDI	1308/4-5	69	17-09-15 508	C	
12	BIX-UDI	1310/4-5	70	17-09-15 340	C	
13	BIX-UDI	1312/8-9	71	17-09-15 525	C	
14	BIX-UDI	1314/3-4	72A	17-09-15 352	C	
15	BIX-UDI	1319/0-1	75	17-09-15 708	C	
16	BIX-UDI	1320/1-2	77	17-09-15 375	C	
17	BIX-UDI	1322/6-7	82	17-09-15 544	C	

2.9 RAILWAY STATIONS ON RAILWAY PROJECT

The Site includes the following railway stations

Birlanagar- MP Border (Chambal river Bridge start)

SL. No.	Station	C.L. km	No of lines	No of P.F. & Length	FOB	Remarks
1	Birlanagar	1227.67	4	PF = 3nos. PF1=185.00 PF2&3=265.00 PF-4=360	1	
2	Bhadroli	1236.46	1	PF = 1no PF1=275.30	Nil	
3	Sanichara	1242.86	4	PF = 2nos. PF1=234.00 PF2=234.00	Nil	
4	Rithaura Kalan	1247.30	1	PF = 1no PF1=260.00	Nil	
5	Malanpur	1250.30	3	PF = 2nos. PF1=260.00 PF2=648.43	Nil	
6	Nonera	1256.231	1	PF = 1 no. PF1=260.00	Nil	
7	Rayatpura	1259.47	1	PF = 1no PF1=260.00	Nil	



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SL. No.	Station	C.L. km	No of lines	No of P.F. & Length	FOB	Remarks
8	Gohad Road	1267.25	2	PF = 1no PF1=260.80	Nil	
9	Sondha Road	1275.50	1	PF = 1no PF1=247.60	Nil	
10	Soni	1283.00	4	PF = 1no. PF1=258.00	Nil	
11	Ashokhar	1289.53	1	PF = 1no. PF1=260.00	Nil	
12	Itehar	1295.85	1	PF = 1no. PF1=260.00	Nil	
13	Bhind	1306.76	3	PF = 3nos PF1=475.00 PF2 & 3 = 260.00	1	
14	Phuph	1319.742	1	PF = 1nos. PF1=260.00	Nil	

2.10 RAILWAY YARDS

The Site includes the following Railway yards:

(A) Birlanagar- MP Border (Chambal river Bridge start)

SL. No.	Name of Yard	No. of Line	Remarks
1	Birlanagar	4	
2	Bhadroli	1	
3	Sanichara	4	
4	Rithaura Kalan	1	
5	Malanpur	3	
6	Nonera	1	
7	Rayatpura	1	
8	Gohad Road	2	
9	Sondha Road	1	
10	Soni	4	
11	Ashokhar	1	
12	Itehar	1	
13	Bhind	3	
14	Phuph	1	

2.11 FOOT OVER BRIDGES ON RAILWAY PROJECT

The Site includes the following foot over bridges:

SL.No.	Station/ Block Section	Km/Chainage	Span (mtr.)/ No. of Track	Remarks
(A)Birlanagar- MP Border (Chambal river Bridge start)				
1	Birlanagar	1227.684	39.83	
2	Bhind	1306.009	17.56	



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The Site includes the following transmission lines crossing:

(A) Biralanagar – MP Border (Chambal river Bridge start)

SL. No.	Block Section	Chainage	HT/LT (Specify KV)	OH/UG	Height above RL/ Depth below RL in meters
1	SHANICHARA – RETHORA	1244/9-1245/0	132	OH	17.00
2	SHANICHARA – RETHORA	1245/0-1245/1	33	OH	16.50
3	RETHORA - MALANPUR	1249/7-8	132	OH	16.50
4	NONERA-RAYATPURA	1256/8-9	800	OH	24.00
5	NUNERA-RAYATPURA	1257/2-3	800	OH	25.00
6	NUNERA-GOHAD	1267/9-1268/0	33	OH	17.00
7	SONDHA ROAD-SONI	1281/7-8	132	OH	16.50
8	SONI-ASHOKHAR	1283/6-7	33	OH	17.00
9	SONI-ASHOKHAR	1288/1-2	132	OH	17.00
10	ITEHAR-BHIND	1305/9-10	33	OH	17.00

2.13 UNDERGROUND POWER LINE CROSSING

The Site includes the following Underground Power Line Crossings.

SL. No.	Location	Section	System Voltage in KV	Distance of Structure from centre of Track in meters		Remarks
Birlanagar- MP Border (Chambal river Bridge start)						
(A)	1245/0-1	Sanichara-Rethora	33	35	20	
(B)	1267/9-1268-0	Nonera-Gohad	33	35	20	
(C)	1283/6-7	Soni-Ashokhar	33	30.00	50.00	
(D)	1305/9-10	Itehar-Bhind	33	25	40	

2.14 TSS Location

SL. No.	Location	Starting Chainage	Ending Chainage	Length	Width
1	Bhind	1306/547	1306/647	100	50
2	Malanpur	1249/ 754	1249/804	100	50



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2.15 SP/SSP Locations

SL. No.	Location	Starting Chainage	Ending Chainage	Length	Width
Birla Nagar-Etawah Group-239					
1	Bhadrouli-SP	1234/00	1234/20.80	20.80 M	5.623 M
2	Sanichara-SSP	1242/182.20	1242/200	17.80 M	5.623 M
3	Nonera-H-SSP	1256/682.20	1256/700	17.80 M	5.623 M
4	Gohad Road-SSP	1268/100	1268/117.80	17.80 M	5.623 M
5	Sondha Road-SSP	1276/182.20	1276/200	17.80 M	5.623 M
6	Soni- SP	1284/00	1284/20.80	20.80 M	5.623 M
7	Itehar-SSP	1295/515	1295/532.80	17.80 M	5.623 M
8	Phuphu-SSP	1318/991.10	1319/8.90	17.80 M	5.623 M

2.16 Tower Wagon shed and sidings

SL. No.	Section & Group	Location	Length of track
1	Birlanagar- MP Border (Chambal river Bridge start)	Bhind	0.125TKM(TWS)
		Malanpur	0.125TKM(TWS)

2.17 Railway Electrification sidings & Depots

The proposed Railway Electrification sidings and depot shall be as following:

SL. No.	Location	Length of track
1	Bhind	250

The proposed sectioning arrangement of the Railway Electrification Project, Sectioning diagrams for various facilities are provided separately in the document for the brief information to bidder.

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