

ESP-001-
2A Rev.00



PROJECT ENGINEERING & SYSTEMS DIVISION

Annexure-2

Site of The Project for MP Border-Etawah Jn & Etawah Jn-
Mainpuri Jn

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Etawah Jn-Mainpuri Jn



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1.0 SITE

The Site of the Railway Project comprises the section MP Border (Chambal river bridge start)-Etawah Jn commencing from km 1326/.0654 to km 1343/.180 i.e. the section in the State of U.P in the North Central Railway zone. The section in the State of U.P in the North Central Railway Zone, Mainpuri-Etawah Jn KM 3/02 TO 49/02. 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	1326/.0654	1343/.180	16	Not Electrified	MP Border(Chambal river bridge start)-Etawah
2	Single line	3/02	49/02	51	Not Electrified	Mainpuri-Etawah

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			
MP Border(Chambal river bridge start)-Etawah								
1	1333/2	1333.752	OWF	CC	OW GIRDER	10	61.00	1.6
Mainpuri-Etawah								
NIL								

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)
			Foundation	Substructure	Superstructure		
(A)	MP Border(Chambal river bridge start)-Etawah		Foundation	Substructure	Superstructure	No. of spans with span length (m)	Width (m)
	Bridge No.	Location					
NIL							
(B)	Farrukhabad-Shikohabad & Mainpuri-Etawah Group-241						
NIL							



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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)	MP Border(Chambal river bridge start)-Etawah							
1	1327/1	1327.183	Open	CC	RCC Box	2	3.00	6.1
2	1327/2	1327.472	Open	CC	RCC Box	1	4.00	6.1
3	1327/3	1327.739	Open	CC	RCC Box	1	3.00	6.1
4	1328/1	1328.139	Open	CC	RCC Box	1	3.00	6.1
5	1328/2	1328.367	Open	CC	RCC Box	1	3.00	6.1
6	1328/3	1328.649	Open	CC	RCC Box	1	3.00	6.1
7	1328/4	1328.884	Open	CC	RCC Box	1	3.00	6.1
8	1330/1	1330.199	Open	CC	RCC Box	3	2.00	6.1
9	1331/1	1331/2-3	Open	CC	RCC BOX	1	5.000	6.1
10	1332/1	1332.958	Open	CC	RCC Box	2	4.50	6.1
11	1333/1	1333.105	Open	CC	RCC Box	1	4.00	6.1
12	1334/1	1334.277	Open	CC	RCC Box	1	1.50	6.1
13	1334/2	1334.352	Open	CC	RCC Box	1	2.00	6.1
14	1334/3	1334.813	Open	CC	RCC Box	1	4.00	6.1
15	1334/4	1334.84	Open	CC	RCC Box	1	4.50	6.1
16	1335/1	1335.172	Open	CC	RCC Box	1	1.50	6.1
17	1336/1	1336.37	Open	CC	RCC Box	1	3.00	6.1
18	1336/2	1336.82	Open	CC	RCC Box	1	2.00	6.1
19	1337/1	1337/5-6	Open	CC	RCC BOX	1	5.000	6.1
20	1338/1	1338.414	Open	CC	RCC Box	1	2.00	6.1
21	1338/2	1338.43	Open	CC	RCC Box	2	4.00	6.1
22	1338/3	1338.701	Open	CC	RCC Box	2	6.00	6.1
23	1339/2	1339.408	Open	CC	RCC Box	1	4.00	6.1
27	1329/1	1329.493	Open	CC	RCC-T-Beam slab	1	15.33	6.1

2.5 TUNNELS

SL. No.	Block Section	km from	km to	Remarks
(A) MP Border(Chambal river bridge start)-Etawah - NIL				
(B) Mainpuri-Etawah - NIL				



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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. × length)	Width (m)
			Foundation	Sub- structure	Super- structure		
(A) MP Border(Chambal river bridge start)-Etawah - NIL							
(B) Mainpuri-Etawah- 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) MP Border(Chambal river bridge start)-Etawah									
1	MP Border (Chambal river bridge start)-Etawah	1329/1	1329.493	RCC	RCC T-Beam slab	1	15.33	6.1	ROB
2		1339/1	1339.246	RCC	RCC BOX	2	9.15	6.1	RUB
(B) Mainpuri-Etawah									
NIL									

2.8 RAILWAY LEVEL CROSSINGS

SL. No.	Block Section	Chainage	LC No.	TVU / year	LC Classification	Remarks
A)MP Border (Chambal river bridge start) -Etawah						
1	UDI-ETW	1331/2-3	88	17-09-15 406	C	
2	UDI-ETW	1337/5-6	91	17-09-15 446	C	
B) Mainpuri-Etawah						
NIL						

2.9 RAILWAY STATIONS ON RAILWAY PROJECT

The Site includes the following railway stations

MP Border (Chambal river bridge start)-Etawah



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SL.No.	Station	C.L. km	No. of lines	Nos. Of P.F. & Length	FOB	Remarks
1	Udi	1330.52	4	PF = 2no. PF1=575..00 PF2=575. 00	Nil	
2	Etawah Jn.	1156.755	8	PF = 5no. PF1=605.00 PF2 & 3=605.00, PF4 & 5=420.00	2	

Mainpuri-Etawah

SL. No.	Station	C.L. km	Nos. Of lines	Nos. Of P.F. & Length	FOB	Remarks
1	Mainpuri	55.004	3	PF = 2nos. PF1=242.60 PF 2= 244.00	1	
2	Keerathpur Halt	45.510	1	PF = 1nos. PF1=250.00	Nil	
3	Bhujia Halt	38.476	1	PF = 1nos. PF1=350.00	Nil	
4	Karhal	29.050	3	PF = 2nos. PF1=350.00 PF 2= 350.00	Nil	
5	Safai	21.838	1	PF = 1nos. PF1=350.00	Nil	
6	Baidpur	11.500	1	PF = 1nos. PF1=350.00	Nil	
7	Etawah (Jn.)	1156.755	8	PF = 5nos. PF1=605.00 PF 2 & 3 = 605.00, PF 4 & 5 = 420.00	2	

2.10 RAILWAY YARDS

The Site includes the following Railway yards:

(A) MP Border (Chambal river bridge start)-Etawah

SL. No.	Name of Yard	No. of Line	Remarks
1	Udi	4	
2	Etawah Jn.	8	

(B) Farukhabad- Shikohabad &Mainpuri-Etawah

SL. No.	Name of Yard	No. of Line	Remarks
1	Mainpuri	3	
2	Keerathpur Halt	1	
3	Bhujia Halt	1	
4	Karhal	3	
5	Safai	1	
6	Baidpur	1	
7	Etawah(Jn.)	8	



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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) MP Border(Chambal river bridge start)-Etawah				
1	Etawah	1156.531 1156.703	56.00 36.00	
(B) Mainpuri –Etawah Section				
Nil				

2.12 TRANSMISSION LINES CROSSING THE RIGHT OF WAY

The Site includes the following transmission lines crossing the Right of Way:

(A) MP Border (Chambal river bridge start)-Etawah

SL. No.	Block Section	Chainage	HT/LT (Specify KV)	OH/UG	Height above RL/ Depth below RL in meters
1	ETW - UDIMOR	1331/3-4	800	OH	25.00
2	ETW - UDIMOR	1331/4-5	800	OH	20.00

(B) Mainpuri –Etawah Section

1	Etawah-Baidpura	16/1-2	132	OH	21.00
2	Etawah-Baidpura	10/9-10	132	OH	18.00
3	Etawah-Baidpura	10/1-2	765	OH	22.00
4	Etawah-Baidpura	8/8-9	400	OH	18.00
5	Etawah-Baidpura	7/9-10	400	OH	21.00
6	Etawah-Baidpura	7/2-3	400	OH	18.00
7	Sefai-Baidpura	17/5-6	400	OH	22.00
8	Bujiya-Karhal	31/1-2	132	OH	17.00
9	Kirathpur-Bujiya	42/1-2	400	OH	22.00
10	Keerathpur-Bujiya	41/7-8	400	OH	21.0
11	Keerathpur-Bujiya	41/6-7	132	OH	23.00
12	Keerathpur-Bujiya	44/8-9	765	OH	23.00
13	Mainpuri-Keerathpur	48/3-4	400	OH	23.00
14	Mainpuri-Keerathpur	49/9-10	132	OH	18.00
15	Mainpuri-Keerathpur	50/3-4	400	OH	19.00
16	Mainpuri-Keerathpur	50/3-4	400	OH	20.00
17	Mainpuri-Keerathpur	48/3-4	400	OH	New Line under construction.
18	Mainpuri-Keerathpur	46/9-10	765	OH	23.00



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2.13 UNDERGROUND POWER LINE CROSSING THE RIGHT OF WAY

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
(A) MP Border(Chambal river bridge start)-Etawah					
-----NIL -----					
(B) Mainpuri-Etawah					
-----NIL -----					

2.14 TSS Location

SN	Location	Starting Chainage	Ending Chainage	Length	Width
1	Safai	22/240.00	22/340.00	100	50

2.15 SP/SSP Locations

SN	Location	Starting Chainage	Ending Chainage	Length	Width
MP Border(Chambal river bridge start)-Etawah					
1	Oodi-SSP	1329/532.20	1329/550	17.80 M	5.623 M
2	Etawah-SP	1339/650	1339/670.80	20.80 M	5.623 M
Manpuri-Etawah					
1	Keerathpur-SP	46/700	46/820.80	20.8M	5.623 M
2	Karahal-SSP	29/850	29/867.80	17.8 M	5.623 M
3	Baidpura-SSP	12/105.00	12/122.80	17.8 M	5.623 M
4	Etawah-SP	6/400	6/420.80	20.80 M	5.623 M

2.16 Tower Wagon shed and sidings and Cross Track for TSS

SL. No.	Section & Group	Location	Length of track
1	Manpuri-Etawah	Mainpuri	0.125TKM(TWS)

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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