



BID DOCUMENT FOR

Design and Construction of Civil, Structures and Track Works, involving Formation in Embankment /Cutting, Ballast on Formation, Track Works, Bridges, Structures, Buildings, Yards & Integration with Indian Railway's Existing Railway System and Testing & Commissioning on Design-Build Lump Sum Basis of Sahnewal -Pilkhani Section (approximately 175 Route Km of Single Line) and Dadri-Khurja Section (approximately 46 Route Km of Double Line) of Eastern Dedicated Freight Corridor

CIVIL, STRUCTURES AND TRACK WORKS

Issued on: dd-mm-2015

ICB No.: HQ/EN/EC/D-B/Sahnewal-Pilkhani and Dadri-Khurja Sections

(Part-4)

CONTRACT PACKAGE NO.: 301

SAHNEWAL TO PILKHANI

From Km 360.200 to Km 187.500

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD

(A GOVERNMENT OF INDIA ENTERPRISE)

MINISTRY OF RAILWAYS

COUNTRY : INDIA

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Part 4 – Reference Documents

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1. Site details – Site data including alignment and survey details, Utilities, GADs etc.

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2. DFCC– Environmental Impact Assessment:

Environment Assessment (EA), Environment Management Framework and Environment Management Plan for Sahnewal-Pilkhani and Dadri-Khurja Sections

3. DFCC– Social Impact Assessment:

Draft (Final) Resettlement Action Plan for Sahnewal-Pilkhani and Dadri-Khurja Sections

4. DFCC – SHE Manual

DISCLAIMER –

"The number of structures given in sectional data (Vol. -1) list are final but other Data and Drawings attached to Tender document are indicative. The responsibility of detailed investigation, design and compliance of contract provisions as per Employer's Requirement rests with the Contractor"



डेडीकेटेड फ्रेट कोरीडोर

DESIGN AND CONSTRUCTION OF CIVIL, STRUCTURES AND TRACK WORKS FOR SINGLE LINE RAILWAY INVOLVING FORMATION IN EMBANKMENTS/CUTTINGS, BALLAST ON FORMATION, TRACK WORKS, BRIDGES, STRUCTURES, BUILDINGS, YARDS, INTEGRATION WITH IR EXISTING RAILWAY SYSTEM AND TESTING & COMMISSIONING ON DESIGN-BUILD LUMP SUM BASIS FOR SAHNEWAL - PILKHANI SECTION OF EASTERN DEDICATED FREIGHT CORRIDOR

Contract Package: 301

ICB No. HQ/EN/EC/D-B/SAHNEWAL - PILKHANI

PART - 4 - REFERENCE DOCUMENT

SECTIONAL DATA - VOLUME - 1

SAHNEWAL TO PILKHANI

From Km. 360.200 to Km. 187.500

SECTIONAL DATA

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED
(A GOVERNMENT OF INDIA ENTERPRISES)
MINISTRY OF RAILWAYS
COUNTRY : INDIA

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DISCLAIMER –

"The number of structures given in sectional data (Vol. -1) list are final but other Data and Drawings attached to Tender document are indicative. The responsibility of detailed investigation, design and compliance of contract provisions as per employers requirement rests with the Contractor"

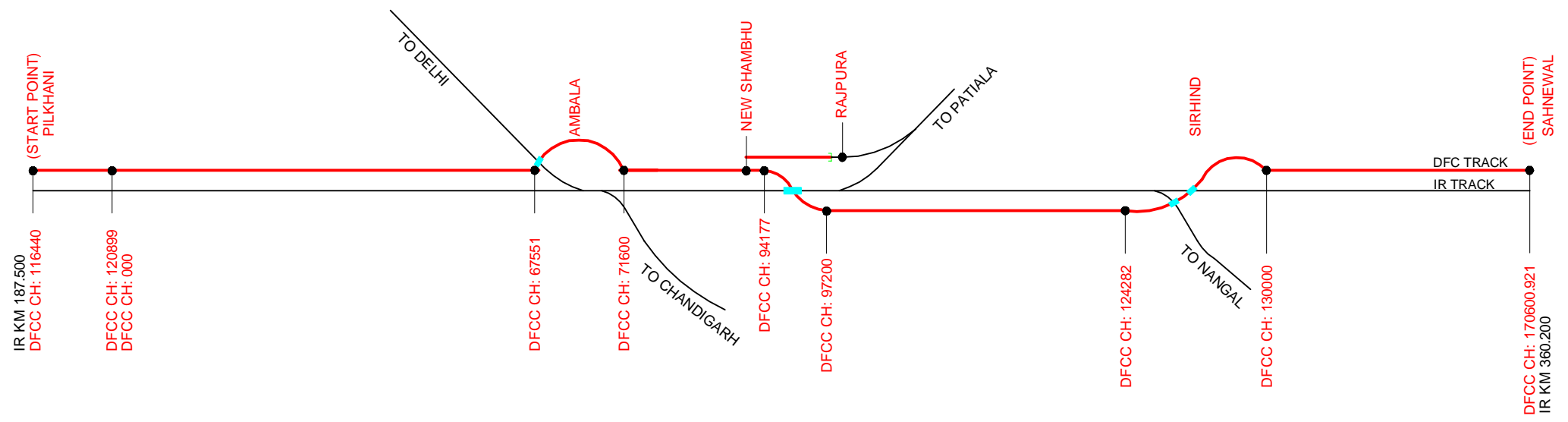
INDEX PLAN APL - 3

EASTERN CORRIDOR

← SAHARANPUR

LUDHIANA →

CONTRACT PACKAGE 301



PROPOSED DFC LINES PACKAGE 301 SHOWN THUS	—
EXISTING IR LINES SHOWN THUS	—
LOCATION OF RFOS	■

GENERAL CONSULTANT **AECOM Asia Co. Ltd.**
AECOM 35 5TH FLOOR, INFINITY TOWER C DLF CYBER CITY
 DLF PHASE II GURGAON 122002, INDIA



DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.
 (A GOVERNMENT OF INDIA ENTERPRISE)

Table No.1								
Contract Package 301								
Brief of the Section								
Route Length								
From	To	Parallel/ Detour	DFCC Chainage		Parallel Length (m)	Detour Length (m)	Link line Length (m)	Remarks
			Start	End				
Pihkhani	-	Parallel	116440.000	120899.038	4459.038			
-	Ambala	Parallel	0.000	67551.000	67551.000			
Ambala	Ambala	Ambala Detour	67551.000	71600.000		4049.000		
Ambala	Shambhu	Parallel	71600.000	94177.000	22577.000			
Shambhu	Rajpura	Rajpura Detour (RFO)	94177.000	97200.000		3023.000		
Rajpura	Sirhind	Parallel	97200.000	124282.000	27082.000			
Sirhind	Sirhind	Sirhind Detour (RFO)	124282.000	130000.000		5718.000		
Sirhind	Sahnewal		130000.000	170600.921	40600.921			
New Shambu to Rajpura Link			91230.000	98070.000			6840.000	
Total Length					162270	12790	6840	
Grand Total					181900			

Table No.2

Contract Package 301

Concordance Table

Sheet No.	Chainage shown in Project Sheet		Corresponding Railway KM		Remarks
	From Ch.	To Ch.	From KM	To KM	
1	116440	117640	187.500	188.700	
2	117640	118800	188.700	189.900	
3	118800	120000	189.900	191.100	
4	120000	120899.038	191.100	192.000	
5	120899.038/0.000	1200	192.000	193.200	
6	1200	2400	193.200	194.400	
7	2400	3600	194.400	195.600	
8	3600	4800	195.600	196.800	
9	4800	6000	196.800	198.000	
10	6000	7200	198.000	199.200	
11	7200	8400	199.200	200.400	
12	8400	9600	200.400	201.600	
13	9600	10800	201.600	202.800	
14	10800	12000	202.800	204.000	
15	12000	13200	204.000	205.200	
16	13200	14400	205.200	206.400	
17	14400	15600	206.400	207.600	
18	15600	16800	207.600	208.800	
19	16800	18000	208.800	210.000	
20	18000	19200	210.000	211.200	
21	19200	20400	211.200	212.400	
22	20400	21600	212.400	213.600	
23	21600	22800	213.600	214.800	
24	22800	24000	214.800	216.000	
25	24000	25200	216.000	217.200	
26	25200	26400	217.200	218.400	
27	26400	27600	218.400	219.600	
28	27600	28800	219.600	220.800	
29	28800	29400	220.800	221.400	
30	29400	30600	221.400	222.600	
31	30600	31800	222.600	223.800	
32	31800	33000	223.800	224.900	
33	33000	34200	224.900	226.100	
34	34200	35400	226.100	227.250	
35	35400	36600	227.250	228.450	
36	36600	37800	228.450	229.650	
37	37800	39000	229.650	230.850	
38	39000	40200	230.850	232.050	
39	40200	41400	232.050	233.250	
40	41400	42600	233.250	234.450	
41	42600	43800	234.450	235.650	
42	43800	45000	235.650	236.850	
43	45000	46200	236.850	238.050	
44	46200	47400	238.050	239.250	

Table No.2

Contract Package 301

Concordance Table

Sheet No.	Chainage shown in Project Sheet		Corresponding Railway KM		Remarks
	From Ch.	To Ch.	From KM	To KM	
45	47400	48600	239.250	240.450	
46	48600	49800	240.450	241.650	
47	49800	51000	241.650	242.850	
48	51000	52200	242.850	244.050	
49	52200	53400	244.050	245.250	
50	53400	54600	245.250	246.450	
51	54600	55800	246.450	247.650	
52	55800	56181.414	247.650	248.000	
53	56181.414	57400	248.000	249.200	
54	57400	58600	249.200	250.400	
55	58600	59800	250.400	251.600	
56	59800	61000	251.600	252.800	
57	61000	62200	252.800	254.000	
58	62200	63400	254.000	255.200	
59	63400	64600	255.200	256.400	
60	64600	65800	256.400	257.650	
61	65800	67000	257.650	258.850	
62	67000	68200	258.850	260.050	
63	68200	69400	Detour		
64	69400	70600	Detour		
65	70600	71800	Detour		
66	71800	73000	262.800	264.000	
67	73000	74200	264.000	265.200	
68	74200	75400	265.200	266.400	
69	75400	76600	266.400	267.600	
70	76600	77800	267.600	268.800	
71	77800	79000	268.800	269.950	
72	79000	80200	269.950	271.150	
73	80200	81400	271.150	272.350	
74	81400	82600	272.350	273.550	
75	82600	83800	273.550	274.750	
76	83800	85000	274.750	275.950	
77	85000	86200	275.950	277.150	
78	86200	87400	277.150	278.350	
79	87400	88600	278.350	279.550	
80	88600	89800	279.550	280.750	
81	89800	91000	280.750	281.950	
82	91000	92200	281.950	283.150	
83	92200	93400	283.150	284.400	
84	93400	94600	284.400	285.600	
85	94600	95800	285.600	286.800	
86	95800	97000	286.800	288.000	
87	97000	98200	288.000	289.150	
88	98200	99400	289.150	290.400	

Table No.2

Contract Package 301

Concordance Table

Sheet No.	Chainage shown in Project Sheet		Corresponding Railway KM		Remarks
	From Ch.	To Ch.	From KM	To KM	
89	99400	100600	290.400	291.500	
90	100600	101000	291.500	291.900	
91	101000	102200	291.900	293.150	
92	102200	103400	293.150	294.300	
93	103400	104600	294.300	295.500	
94	104600	105800	295.500	296.700	
95	105800	107000	296.700	297.900	
96	107000	108200	297.900	299.100	
97	108200	109400	299.100	300.300	
98	109400	110600	300.300	301.500	
99	110600	111800	301.500	302.700	
100	111800	113000	302.700	303.900	
101	113000	114200	303.900	305.100	
102	114200	115400	305.100	306.300	
103	115400	116600	306.300	307.500	
104	116600	117800	307.500	308.700	
105	117800	119000	308.700	309.900	
106	119000	120200	309.900	311.100	
107	120200	121400	311.100	312.300	
108	121400	122600	312.300	313.500	
109	122600	123800	313.500	314.700	
110	123800	125000	Detour		
111	125000	126200	Detour		
112	126200	127400	Detour		
113	127400	128600	Detour		
114	128600	129800	Detour		
115	129800	130000	319.200	319.400	
116	130000	131200	319.400	320.650	
117	131200	132400	320.650	321.800	
118	132400	133600	321.800	323.050	
119	133600	134800	323.050	324.250	
120	134800	136000	324.250	325.450	
121	136000	137200	325.450	326.650	
122	137200	138400	326.650	327.850	
123	138400	139600	327.850	329.050	
124	139600	140800	329.050	330.250	
125	140800	142000	330.250	331.450	
126	142000	143200	331.450	332.650	
127	143200	144400	332.650	333.850	
128	144400	145600	333.850	335.050	
129	145600	146800	335.050	336.250	
130	146800	148000	336.250	337.450	
131	148000	149200	337.450	338.650	
132	149200	150400	338.650	339.850	

Table No.2					
Contract Package 301					
Concordance Table					
Sheet No.	Chainage shown in Project Sheet		Corresponding Railway KM		Remarks
	From Ch.	To Ch.	From KM	To KM	
133	150400	151600	339.850	341.050	
134	151600	152800	341.050	342.250	
135	152800	154000	342.250	343.450	
136	154000	155200	343.450	344.650	
137	155200	156400	344.650	345.850	
138	156400	157600	345.850	347.050	
139	157600	158800	347.050	348.250	
140	158800	160000	348.250	349.450	
141	160000	161200	349.450	350.650	
142	161200	162400	350.650	351.850	
143	162400	163600	351.850	353.050	
144	163600	164800	353.050	354.250	
145	164800	166000	354.250	355.450	
146	166000	167200	355.450	356.650	
147	167200	168400	356.650	357.850	
148	168400	169600	357.850	359.050	
149	169600	170600.921	359.050	360.200	
THERMAL LINE KALANAUR					
KNZ-1	11317.55	12692.95	203.100	204.475	
LINK LINE - SHAMBU RAJPURA					
SMU-1	91200	92400	281.950	283.150	
SMU-2	92400	93600	283.150	284.400	
SMU-3	93600	285.800	284.400	285.800	
SMU-4	285.800	287	285.800	287.000	
SMU-5	287.000	97200	287.000	288.200	
SMU-6	97200	98070	288.200	289.000	
IR UP MAIN LINE - SIRHIND					
SIR-1	121351.52	122500	312.300	313.500	
SIR-2	122500	123082.53	313.500	314.700	
IR MAIN LINES - MANDI GOBINDGARH					
GVG-1	131173	132400	320.650	321.800	
GVG-2	132400	133600	321.800	323.050	
GVG-3	133600	134753.87	323.050	324.250	
IR DN MAIN LINE - KHANNA					
KNN-1	144200	145225.91	333.700	334.700	

Table No.3

Contract Package 301

Details of Important Bridge

Sr. No.	Section	Bridge No.	Proposed Location (DFCC Chainage)	Span Arrangement (m)	Waterway (m)
1	SSW - KNZ	13	10786.761	7X61.0	427
2	TDW - KES	55	53000	6X45.70	274.2

Table No.4					
Contract Package 301					
Details of ROBs Modification					
Sr. No.	Section	Bridge No.	Proposed Location (DFCC Chainage)	Span Arrangement (m)	Remarks
1	JUD -JUDW	25	21287.635	1X6X7.17	
2	RPJ - SBJ	120	100200	1X6X7.17	

Table No.5

Contract Package 301

Details of Major Bridges

Sr. No.	Section	Bridge No.		Proposed Location (DFCC Chainage)	Span Arrangement (m)	Linear Water Way (m)
		As per Project Sheet	As per ESP			
1	SSW - KNZ	9	-	4030.336	1X24.40	24.40
2	SSW - KNZ	10	-	5866.009	2X30.50	61.00
3	KNZ - JUD	20	-	18700	1x61.0	61.00
4	JUDW - DZP	31	-	27676.071	1X24.40	24.40
5	JUDW - DZP	32	-	29000	3x12.20	36.60
6	DZP - MFB	34	-	30450.006	14X6.10	85.40
7	DZP - MFB	35	39	32467.577	3X12.20	36.60
8	DZP - MFB	37*	-	34679.979	3x9.15	27.45
9	DZP - MFB	38*	-	35209.673	6x9.15	54.90
10	DZP - MFB	39	-	35856.903	5X6.10	30.50
11	MFB - RAA	40	-	36864.174	2X24.40	48.80
12	MFB - RAA	41	-	37927.118	15X6.10	91.50
13	MFB - RAA	48	-	44086.609	15x6.10	91.50
14	RAA - TDW	52	-	47040.336	6X6.0	36.00
15	RAA - TDW	53	-	47852.853	4X6	24.00
16	TDW - KES	54	-	51500	3x6	18.00
17	TDW - KES	58	72	55886.748	3X6.10	18.30
18	KES - DOKY	60	-	59410	5X6	30.00
19	KES - DOKY	61	-	61240	1X24.40	24.40
20	KES - DOKY	62	-	62017	1X24.40	24.40
21	DOKY - UMB	64	6	64372	1X30.5	30.50
22	DOKY - UMB	65	-	65481	3X47.5	142.50
23	UMB - UMC	74	-	72637	3X6	18.00
24	UMB - UMC	75	-	73445	3X6.10	18.30
25	UMB - UMC	79	21	76908	3X6.10	18.30
26	UMC - SMU	90	-	80763	4X4X2	16.00
27	UMC - SMU	91	-	82722	6X30.5	183.00
28	UMC - SMU	92	-	84206	1X12.2+1X9.15+1X6.10+1X9.15+1X12.2	48.80
29	UMC - SMU	93	-	84355	8X8	64.00
30	UMC - SMU	94	-	84550	8X8	64.00
31	UMC - SMU	95	-	86275	4X6.10X3	24.40
32	UMC - SMU	96	-	87150	4X6.10X4	24.40
33	SMU - RPJ	103	-	92395	2X12.20+2X18.30	61.00
34	SMU - RPJ	114	-	96688	4X30.5	122.00
35	SMU - RPJ	115	-	287/17-25	4X30.5	122.00
36	RPJ - SBJ	123	-	101086	2X9.15	18.30
37	RPJ - SBJ	126	-	103563	15X6.10	91.50
38	SBJ - SDY	134	-	109654	8X6.10X3	48.80
39	SBJ - SDY	135	-	110723	8X6.10X3	48.80
40	SBJ - SDY	136	-	110979	2X9.15	18.30
41	SBJ - SDY	140	-	113176	8X6.10	48.80
42	SBJ - SDY	145	-	114637	2X9.15	18.30
43	SBJ - SDY	148	-	115550	5X6.10	30.50
44	SIR - GVG	163	-	125700	4X18.3	73.20
45	SIR - GVG	170	-	130459	1X45.7	45.70
46	DOA - SNL	199	-	164575	1X18.3+1X76.5+1X18.3	113.10
Note:-	1. The bridges in the station yards shall be constructed to cater to the number of Railway tracks as shown in the ESP of the respective station yards. 2. Bridges marked with " * " are to be constructed as per IR standard on alignment to be diverted. Please refer to diversion plan for details.					

Table No.6					
Contract Package 301					
Details of RFOs					
Sr. No.	Section	Bridge No.	Proposed Location (DFCC Chainage)	Span Arrangment (m)	Remarks
1	DOKY - UMB	69	68805	1X30.5 + 1X9.15 + 2X27.39	Non See through Non Scalable cutter wall of suitable height to be provided on both sides of track from Ch: 68800 to Ch: 70650.
2	SMU - RPJ	108	95532	1X9.1 5 + 1X45.7	Road on one side and future track on other side may not be required
3	SIR - GVG	164	126147	1X9.15 + 1X24.4 + 1X9.15	
4	SIR - GVG	165	127457	1X9.15 + 1X30.5 + 1X9.15	

Table No.7						
Contract Package 301						
Details of Major RUBs						
Sr. No.	Section	Bridge No.		Proposed Location (DFCC Chainage)	Span Arrangement (m)	Remarks
		As per Project Sheet	As per ESP			
1	DOKY - UMB	68	-	68595	2X45.7	
2	UMB - UMC	77	19	75644	2X12.2 + 2X9.15	
3	SIR - GVG	162	-	125156	1X18.3	
Note:-	The bridges in the station yards shall be constructed to cater to the number of Railway tracks as shown in the ESP of the respective station yards					

Table No.8

Contract Package 301

Details of Minor Bridges

Sr. No.	Section	Bridge No.		Proposed Location DFCC CH/IR KM	Span Arrangement (m)	Remarks
		As per Project Sheet	As per ESP			
1	SRE - PKY	1	-	116688	1X3.05X2	
2	PKY - SSW	2	SRN-4	118207	1X1.2X1.2	
3	PKY - SSW	3	SRN-3	118260	1X3.66X2	
4	PKY - SSW	4	SRN-2	118314	1X1.2X1.2	
5	PKY - SSW	6	SRN-1	1477.117	3X3.05X2	
6	PKY - SSW	7	-	2150.00	1X1.2X1.2	
7	SSW - KNZ	8	-	3688.538	1X3.09X2	
8	SSW - KNZ	11	-	6768.721	1X3.05X3	
9	SSW - KNZ	12	-	8115.119	1X3.05X2	
10	KNZ - JUD	15	-	15209.039	2X2.44X2.44	
11	KNZ - JUD	16	-	15234.834	1X6.10X3	
12	KNZ - JUD	17	-	17218.557	1X3.05X3	
13	KNZ - JUD	18	-	18350	1X1.2X1.2	
14	KNZ - JUD	19	-	18533.868	2X3.05X2	
15	JUD - JUDW	21	-	19190	1X1.2X1.2	
16	JUD - JUDW	22	22	19859.401	1X6.1X2	
17	JUD - JUDW	23	-	21013.359	3X3.05X2	
18	JUD - JUDW	24	-	21160	1X1.2X1.2	
19	JUD - JUDW	26	-	21364.873	2X3.5X2	
20	JUD - JUDW	27	-	22689.163	2X7.62	
21	JUDW - DZP	28	29	24303.316	2X6.1X2	
22	JUDW - DZP	29	30	24483.801	1X4X2	
23	JUDW - DZP	30	31	26337.284	2X6.1X2	
24	DZP - MFB	33	-	29433.375	1X3.05X2	
25	DZP - MFB	36	-	33384.33	1X6.1X2.5	
26	MFB - RAA	42	-	38819.949	1X7.62	
27	MFB - RAA	43	-	39188.46	2X6.1X2	
28	MFB - RAA	44	-	40795.995	1X1.2X1.2	
29	MFB - RAA	45	-	41424.56	2X6.1X2	
30	MFB - RAA	46	54	41880.111	1X1.2X1.2	
31	MFB - RAA	47	55	43279.743	1X6X2	
32	MFB - RAA	49	-	44533.38	1X6X2	
33	RAA - TDW	50	-	45777.613	1X3X2	
34	RAA - TDW	51	-	46669.462	1X3.05X2	
35	TDW - KES	56	-	53459.408	1X3.66X3	
36	TDW - KES	57	71	55590.612	1X2X1.2	
37	TDW - KES	59	-	56653	1X4X2	
38	KES - DOKY	63	-	62309	1X3X3	
39	DOKY - UMB	67	-	68291	1X3X3	
40	DOKY - UMB	71	-	70146	1X3X3	
41	DOKY - UMB	72	-	70645	1X2X2	
42	DOKY - UMB	73	-	70996	1X4X4	
43	UMB - UMC	76	-	73695	2X6	
44	UMB - UMC	78	20	76413	1X2X2	
45	UMB - UMC	80	-	77797	1X3X3	
46	UMB - UMC	81	-	77881	1X1.2X1.2	
47	UMB - UMC	82	-	78183	1X2X1.2	
48	UMC - SMU	83	-	78984	1X1.2X1.2	
49	UMB - UMC	84	-	79050	1X1.2X1.2	
50	UMC - SMU	85	-	79154	1X3.05X2	
51	UMC - SMU	86	-	79734	1X2X2	
52	UMC - SMU	87	-	79952	1X3X3	
53	UMC - SMU	88	-	80260	1X1.2X1.2	

Table No.8

Contract Package 301

Details of Minor Bridges

Sr. No.	Section	Bridge No.		Proposed Location DFCC CH/IR KM	Span Arrangement (m)	Remarks
		As per Project Sheet	As per ESP			
54	UMC - SMU	89	-	80744	1X3X3	
55	SMU - RPJ	98	38	89456	1X2X2	
56	SMU - RPJ	99	39	89680	1X2X2	
57	SMU - RPJ	100	40	90105	1X2X3	
58	SMU - RPJ	101	41	90516	1X2X2	
59	SMU - RPJ	102	-	92000	1X2.5X2	
60	SMU - RPJ	104	-	94473	2X3.05X3	
61	SMU - RPJ	105	-	285/13-15	2X3.05X3	
62	SMU - RPJ	106	-	94850	1X3.05X3	
63	SMU - RPJ	107	-	285/25-27	1X3.05X3	
64	SMU - RPJ	110	-	96263	1X6X4	
65	SMU - RPJ	111	-	287/5-7	1X6X4	
66	SMU - RPJ	112	-	96433	1X6.05X4	
67	SMU - RPJ	113	-	287/11-13	1X6.05X4	
68	SMU - RPJ	118	-	98582	1X1.22X1.2	
69	RPJ - SBJ	119	-	100133	1X1.2X1.2	
70	RPJ - SBJ	121	-	100564	1X3X3	
71	RPJ - SBJ	122	-	100835	2X3X3	
72	RPJ - SBJ	124	-	102518	4X3X2	
73	RPJ - SBJ	125	-	103190	3X3.05X2	
74	RPJ - SBJ	127	-	104372	1X3X3	
75	RPJ - SBJ	128	-	104574	2X3.05X2	
76	RPJ - SBJ	129	-	105350	1X1.2X1.2	
77	RPJ - SBJ	130	-	106823	4X3.05X2	
78	RPJ - SBJ	131	69	108072	1X1.2X1.2	
79	RPJ - SBJ	132	70	108102	2X3.05X1.5	
80	SBJ - SDY	137	-	111543	5X3.05X2	
81	SBJ - SDY	138	-	112435	2X3X2	
82	SBJ - SDY	139	-	112930	2X3X3	
83	SBJ - SDY	141	-	113340	1X1.2X1.2	
84	SBJ - SDY	142	-	113413	2X3.05X2	
85	SBJ - SDY	143	-	113741	1X2.5X2.5	
86	SBJ - SDY	144	-	114341	1X2.5X2.5	
87	SBJ - SDY	146	-	114840	2X2.5X2.5	
88	SBJ - SDY	147	-	115254	2X2.5X2.5	
89	SBJ - SDY	149	-	116215	1X3X3	
90	SDY - SIR	151	-	118145	1X1.2X1.2	
91	SDY - SIR	152	-	118668	1X3X 2	
92	SDY - SIR	153	-	119243	2X2X2	
93	SDY - SIR	154	-	119841	1X3X2	
94	SDY - SIR	155	94	120688	1X3X2	
95	SDY - SIR	156	95	121275	1X2X 2	
96	SDY - SIR	157	96	122090	1X3X 2	
97	SDY - SIR	158	97	122805	1X2X2	
98	SDY - SIR	159	98	123000	1X1.2X1.2	
99	SIR - GVG	168	-	128750	1X3X3	
100	SIR - GVG	171	109	131393	2X3.05X2	
101	SIR - GVG	172	110	132402	1X1.2X1.2	
102	SIR - GVG	173	111	134319	1X3.66X2	
103	GVG - KNN	174	-	136345	1X1.2X1.2	
104	GVG - KNN	175	-	136620	1X1.2X1.2	
105	GVG - KNN	176	-	138640	1X2X3	
106	GVG - KNN	177	-	139140	2X3X3	

Table No.8

Contract Package 301

Details of Minor Bridges

Sr. No.	Section	Bridge No.		Proposed Location DFCC CH/IR KM	Span Arrangement (m)	Remarks
		As per Project Sheet	As per ESP			
107	GVG - KNN	178	-	142637	1X1.2X1.2	
108	GVG - KNN	179	-	143065	1X1.2X1.2	
109	KNN - CHA	180	114A	144042	1X1.2X1.2	
110	KNN - CHA	181	115	145145	1X1.2X1.2	
111	KNN - CHA	182	-	146391	1X6.10X2	
112	KNN - CHA	183	-	147247	1X3X1.5	
113	KNN - CHA	184	118	148704	1X3X2	
114	KNN - CHA	185	-	150823	1X3X2	
115	KNN - CHA	187	-	151600	1X1.2X1.2	
116	KNN - CHA	188	-	152014	1X3.05X1.5	
117	CHA - DOA	189	-	155700	1X1.2X1.2	
118	CHA - DOA	190	-	156400	1X4.57X2	
119	CHA - DOA	191	-	159390	1X1.2X1.2	
120	CHA - DOA	192	-	159595	1X1.2X1.2	
121	CHA - DOA	193	-	160100	1X1.2X1.2	
122	CHA - DOA	194	-	161267	1X1.2X1.2	
123	CHA - DOA	195	-	161600	1X1.2X1.2	
124	CHA - DOA	196	-	162100	1X1.2X1.2	
125	CHA - DOA	197	-	163211	1X1.2X1.2	
126	DOA - SNL	198	-	164481	1X3.05X3.5	
127	DOA - SNL	200	-	170391	1X3X2	
Note:-	The bridges in the station yards shall be constructed to cater to the number of Railway tracks as shown in the ESP of the respective station yards					

Table No.9					
Contract Package 301					
Details of Minor RUBs					
Sr. No.	Section	Bridge No.		Proposed Location DFCC CH/IR KM	Span Arrangement (m)
		As per Project Sheet	As per ESP		
1	PKY - SSW	5	-	119330	1X6.1X3.6
2	KNZ - JUD	14	14	12986.593	1X6.1X3.6
3	DOKY - UMB	66	-	68041	1X6X4
4	DOKY - UMB	70	-	69900	1X6.1X6.1
5	DOKY - UMB	72A	-	70800	2X4X4.5
6	DOKY - UMB	72B*	-	70960	1X7.0X3.5
7	UMC - SMU	97	-	87493	1X3.66X3.6
8	SMU - RPJ	109	-	96202	1X6X4
9	SMU - RPJ	116	-	97950	1X6.1X3.6
10	SMU - RPJ	117	-	288/25-27	1X6.1X3.6
11	SBJ - SDY	133	71	108904	2X3X3.6
12	SDY - SIR	150	-	116770	2X3.5X3.6
13	SIR - GVG	160	-	124587	1X6X4
14	SIR - GVG	161	-	124983	1X6X4
15	SIR - GVG	166	-	127495	1X6X4
16	SIR - GVG	167	-	127845	1X6X4
17	SIR - GVG	169	-	129557	1X6X4
18	KNN - CHA	186	-	151200	1X3X3.6
Note:-	<p>1. The bridges in the station yards shall be constructed to cater to the number of Railway tracks as shown in the ESP of the respective station yards.</p> <p>2. * 1m. Wide covered drain to be provided under the road surface and will be connected with existing drainage system.</p>				

Table No.10

Contract Package 301

RUB to be Constructed in lieu of Level X-ING

Sr. No.	LC. No.	Block Section or Yard, Station Limit	Location (KM) IR	Location (DFCC Chainage)	Span Arrangement (m)	Remarks
1	91/C/E	SSW-KNZ	192/1-3	62.191	1x4.5x5.15	Indicative GAD attached
2	93	SSW-KNZ	196/7-9	4317.846	2x4.0x5.10	Indicative GAD attached
3	94	SSW-KNZ	197/3-5	5213.658	2x4.0x5.10	Indicative GAD attached
4	95	SSW-KNZ	198/13-15	6479.081	2x4.0x5.10	Indicative GAD attached
5	96	SSW-KNZ	200/15-17	8523.265	2x4.0x4.0	Indicative GAD attached
6	101	JUDW-DZP	217/9-11	25376.626	2x4.0x5.10	GAD to be based on LC No. 102
7	102	JUDW-DZP	219/3-5	27206.178	2x4.0x5.10	Indicative GAD attached
8	103	DZP-MFB	220/13-15	28501.892	2x4.0x5.10	GAD to be based on LC No. 102
9	104	DZP-MFB	221/26-28	29995.814	2x4.0x4.10	Indicative GAD attached
10	105/C/E	DZP-MFB	223/12-14	31550.979	2x4.0x5.10	GAD to be based on LC No. 102
11	106/C/E	DZP-MFB	225/21-23	33974.599	2x4.0x5.10	GAD to be based on LC No. 102
12	108/C/E	MFB-RAA	230/3-5	38293.456	2x4.0x5.10	GAD to be based on LC No. 102
13	113/C/E	RAA-TDW	240/1-3	48205.084	1x4.0x4.0	Indicative GAD attached
14	114-C	RAA-TDW	241/5-7	49410.409	1x4.0x4.0	Indicative GAD attached
15	115/C/E	RAA-TDW	242/23-25	50935.128	1x4.0x4.0	Indicative GAD attached
16	117	TDW-KES	248/7-9	56445	2x4.0x5.10	Indicative GAD attached
17	119/C/E	KES-DOKY	253/1-3	61272	1x4.0x4.0	Indicative GAD attached
18	120-C	DOKY-UMB	254/27-29	63048	2x4.0x5.10	Indicative GAD attached
19	121/C/E	DOKY-UMB	258/3-5	66273	1x4.0x4.0	Indicative GAD attached
20	124	UMB-UMC	265/17-19	74642	2x4.0x5.10	GAD to be based on LC No. 102
21	128-C	UMC-SMU	272/8-10	81310	2x4.0x5.10	Indicative GAD attached
22	142-C	SDY-SIR	309/6-8	118260	1x5.5x4.0	Indicative GAD attached
23	C-164	CHA-DOA	351/9-11	161879	1x4.0x4.0	Indicative GAD attached

Table No.11				
Contract Package 301				
IR Level X-Ing's to be Extended on DFC track (Parallel Section)				
Sr. No.	LC. No.	Location (KM) IR	Proposed Location (DFCC Chainage)	Remarks
1	90-A/C	189/13-15	118269.000	Gate Lodge to be constructed before dismantling
2	97-C	208/21-23	16857.064	Gate Lodge to be constructed before dismantling
3	97A/C	210/23-25	18759.000	Gate Lodge to be constructed before dismantling
4	99	213/15-17	21646.872	Gate Lodge not in the scope of CST Contractor
5	100-C	215/27-29	23747.803	Gate Lodge to be constructed before dismantling
6	111	237/17-19	45670.926	Gate Lodge to be constructed before dismantling
7	112	237/33-35	46087.649	Gate Lodge to be constructed before dismantling
8	118-C	250/9-11	58550.000	Gate Lodge to be constructed before dismantling
9	126	269/12-14	78352.000	Gate Lodge to be constructed before dismantling
10	127	270/25-27	79652.000	Gate Lodge to be constructed before dismantling
11	129-C	274/13-15	83447.000	Gate Lodge to be constructed before dismantling
12	130-C	276/5-7	85212.000	Gate Lodge to be constructed before dismantling
13	132-C	282/5-7	91215.000	Gate Lodge to be constructed before dismantling
14	133-C	283/31-284/1	93029.000	Gate Lodge to be constructed before dismantling
15	134/C/E	287/3-5	96202.000	Gate Lodge to be constructed before dismantling
16	134-A/C	288/15-17	97592.000	Gate Lodge to be constructed before dismantling
17	137-C	293/21-23	102796.000	Gate Lodge to be constructed before dismantling
18	138-C	296/21-23	105879.000	Gate Lodge to be constructed before dismantling
19	140-C	302/25-27	111928.000	Gate Lodge to be constructed before dismantling
20	140-A/C	304/5-7	113332.000	Gate Lodge to be constructed before dismantling
21	C-143	311/15-17	120591.000	Gate Lodge to be constructed before dismantling
22	C-144	312/27-29	122026.000	Gate Lodge to be constructed before dismantling
23	C-150	321/17-19	132066.000	Gate Lodge to be constructed before dismantling
24	C-151	325/3-5	135655.000	Gate Lodge to be constructed before dismantling
25	C-154	331/13-15	142043.000	Gate Lodge not in the scope of CST Contractor
26	C-157	336/21-23	147296.000	Gate Lodge to be constructed before dismantling
27	C-158	337/29-338/1	148539.000	Gate Lodge not in the scope of CST Contractor
28	C-160	342/13-15	153028.000	Gate Lodge not in the scope of CST Contractor
29	C-162	345/27-29	156459.000	Gate Lodge not in the scope of CST Contractor
30	B-164	352/23-25	163255.000	Gate Lodge to be constructed before dismantling
31	C-165	354/17-19	165082.000	Gate Lodge to be constructed before dismantling
32	168	359/5-7	169765.000	Gate Lodge to be constructed before dismantling

Table No.12

Contract Package 301

List of FOB to be Constructed/Modified/Extended

Sr. No	Station Name	Station Code	IR KM	Detour/ Parallel	Proposed width (m)	Remarks
1	Kalanaur	KNZ	204.560	Parellel	3.00	New
2	Darazpur	DZP	220.570	Parellel	3.00	New
3	Mustafabad	MFB	228.480	Parellel	3.00	Extension
4	Barara	RAA	237.210	Parellel	3.00	Extension
5	Kesri	KES	248.900	Parellel	3.00	Extension
6	Dukheri	DOKY	254.450	Parellel	3.00	New
7	Rajpura	RPJ	289.840	Parellel	3.00	Extension of 2 FOBs
8	Sadhugarh	SDY	307.410	Parellel	3.00	New
9	Sirhind	SIR	315.220	Parellel	3.00	Extension
10	Mandi Gobindgarh	GVG	324.790	Parellel	3.00	New
11	Khanna	KNN	333.100	Parellel	3.00	Extension
12	Chawa Payal	CHA	343.900	Parellel	3.00	Extension
13	Doraha	DOA	353.310	Parellel	3.00	Extension

Table No.13				
Contract Package 301				
Land for Construction Depot				
Sr. No.	Rly Km. (Approx)		Between Station	Land Width
1	291.600	293.730	Rajpura - Sarai Banjara	74m from IR Up Main
2	307.100	307.500	Sadhugarh	70m from IR Up Main
3	307.800	308.300	Sadhugarh - Sirhind	74m from IR Up Main

Table No.14**Contract Package 301****Details of Station of Existing Indian Railway Network**

Sr. No.	Section	Station	Station Code	Railway KM
1	Contract Package 301	Pilkhani	PKY	188.510
2		Sarsawa	SSW	194.080
3		Kalanaur	KNZ	204.560
4		Jagadhari	JUD	210.930
5		Jagadhari Workshop	JUDW	215.810
6		Darazpur	DZP	220.570
7		Mustafabad	MFB	228.480
8		Barara	RAA	237.210
9		Tandwal	TDW	242.560
10		Kesri	KES	248.900
11		Dukheri	DOKY	254.450
12		Ambala Cantt.	UMB	261.930
13		Ambala City	UMC	269.480
14		Shambhu	SMU	279.090
15		Rajpura	RPJ	289.840
16		Sarai Banjara	SBJ	299.250
17		Sadhugarh	SDY	307.410
18		Sirhind	SIR	315.220
19		Mandi Gobindgarh	GVG	324.790
20		Khanna	KNN	333.100
21		Chawa Pail	CHA	343.900
22		Doraha	DOA	353.310
23		Sahnewal	SNL	360.540

Table No.14(A)**Contract Package 301****Details of existing IR yards to be Modified**

Sr. No.	Section	Station	Railway KM
1	Contract Package 301	Pilkhani	188.510
2		Kalanaur	204.560
3		Jagadhari	210.930
4		Ambala Cantt.	261.930
5		Rajpura	289.840
6		Sadhugarh	307.410
7		Sirhind	315.220
8		Mandi Gobindgarh	324.790
9		Khanna	333.100
10		Doraha	353.310
11		Sahnewal	360.540

Table No.15

Contract Package 301

Details of Junctions and Crossing Stations on DFC Route

Sr. No.	Section	From (IR KM)	To (IR KM)	Location	DFCC Chainage	Center Line (IR KM)	Classification
1	Contract Package 301	189.662	192.146	New Pilkhani	119.787	190.880	Junction Station
2		202.600	205.179	New Kalanaur	12.595	204.050	Junction Station
3		216.105	218.379	New Jagadhari Workshop	25.308	217.318	Crossing Station
4		223.094	225.306	New Darazpur	32.200	224.200	Crossing Station
5		233.644	235.811	New Barara	42.750	234.750	Crossing Station
6		245.527	247.726	New Kesri	54.788	246.600	Crossing Station
7		254.687	256.910	New Dukheri	64.040	255.850	Crossing Station
8		266.169	268.291	New Ambala City	76.255	267.230	Crossing Station
9		279.758	282.072	New Shambhu	90.101	280.900	Junction Station
10		298.220	300.447	New Sarai Banjara	108.300	299.200	Crossing Station
11		311.190	314.388	New Sirhind	121.612	312.530	Junction Station
12		320.941	323.909	New Mandi Gobindgarh	132.964	322.420	Crossing Station
13		336.687	338.915	New Khanna	148.495	337.900	Crossing Station
14		345.281	347.699	New Chawa Pail	157.068	346.490	Junction Station

Table No.16												
Contract Package 301												
Chartered utilities-Summary of Old Structure to be Modified, Relocated before Dismantling (Contract Package 301)												
Sr. No.	Contract Package	Stations	KM/CH	Goods Platform	Quarters		Other Buildings (Area in Sqm)	Existing Gate Lodges	Over Head Tank	Pump House (Area in Sqm)	Boundary Wall/ Fencing	
					IR (Type II)	IR (Type III)						
Existing IR Stations												
1	Contract Package 301	Pilkhani	188.510								500m B. Wall	
2		Sarsawa	194.080			23					500m B. Wall	
3		Kalanaur	204.560			9		122.15		8.41	825m in Mid-Section	
4		Jagadhari	210.930									
5		Jagadhari Workshop	215.810									
6		Darazpur	220.570					18.00		8.41		
7		Mustafabad	228.480					19.31				
8		Barara	237.210			13						
9		Tandwal	242.560									
10		Kesri	248.900			20						
11		Dukheri	254.450									
12		Ambala Cantt.	261.930			73	6	548.42 IR & *2750 For Defence				
13		Ambala City	269.480									
14		Shambhu	279.090			12						
15		Rajpura	289.840			19		60.00				
16		Sarai Banjara	299.250									
17		Sadhugarh	307.410									
18		Sirhind	315.220					1683.56		1	15.09	
19		Mandi Gobindgarh	324.790			44	4	1325.94			14.06	
20		Khanna	333.100			37	1	94.78		1		
21		Chawa Pail	343.900			37		17.90				
22		Doraha	353.310		1	28		395.83				
23		Sahnewal	360.540									
Note:-	*For details of the structure to be relocated in Defence area of Ambala Cantt., please refer Part - 4- REFERENCE DOCUMENT, DRAWINGS - VOLUME - 5.4 - Defence structure to be relocated											

Table No.17																
Contract Package 301																
Summary of New Structure to be constructed (Contract Package 301)																
Sr. No.	Contract Package	Stations	KM/CH	New Platform	Goods Platform of IR	Goods Office of IR	Station Building	New Quarters			IMD	IMSD	Guest House	Club/ Institute/ Office	Boundary Wall/ Fencing	Approach Road
								A	B	C						
Proposed DFC Stations																
1	Contract Package 301	New Pilkhani	190.880	1	2	1	1	94	47	2			1	1	1) 5 Km Boundary Wall 2) 5 Km Fencing	25 Km
2		New Kalanaur	204.560	1	1	1	1									
3		New Jagadhari Workshop	217.318	1			1					1				
4		New Darazpur	224.200	1			1									
5		New Barara	234.750	1			1									
6		New Kesri	246.600	1			1					1				
7		New Dukheri	255.850	1			1									
8		New Ambala City	267.230	1			1									
9		New Shambhu	280.900	1			1					1				
10		New Sarai Banjara	299.200	1			1									
11		New Sirhind	312.530	1	1	1	1									
12		New Mandi Gobindgarh	322.420	1	2	1	1									
13		New Khanna	337.900	1	2	1	1									
14		New Chawa Pail	346.490	1			1				1					

Table No.18

Contract Package 301

Chartered Utility List - Civil Structures

S.No.	Section	KM (IR)/ Chainage (DFCC)	Parallel/ Detour	Description	Action Required
1	PKY - SSW	188/31 to 188/33	Parallel	CWH Bathrooms	To be Dismantled
2	PKY - SSW	191/25-192/1	Parallel	Road	To be Relocated by from LC up to existing road at Railway boundary
3	SSW - KNZ	194/5-7	Parallel	Platform Boundary wall	To be Relocated
4	SSW - KNZ	194/15-17	Parallel	Temporary Structure	To be Dismantled
5	SSW - KNZ	194/19-23	Parallel	Level Crossing Gate Lodge	To be Dismantled
6	SSW - KNZ	194/19-23	Parallel	Height Gauge	To be Dismantled
7	SSW - KNZ	197/3-5	Parallel	Railway Quarter (Abandoned)	To be Dismantled
8	SSW - KNZ	198/13-15	Parallel	Railway Quarter (Abandoned)	To be Dismantled
9	SSW - KNZ	202/43-45	Parallel	Kuchha Structure	To be Dismantled
10	JUD - JUDW	213/13-15	Parallel	Shed (Abandoned)	To be Dismantled
11	JUD - JUDW	215/3-5	Parallel	Toilet Boundary wall	To be Dismantled
12	JUD - JUDW	215/9-11	Parallel	Shop	To be Dismantled
13	JUD - JUDW	215/9-11	Parallel	Pucca Structure	To be Dismantled
14	JUD - JUDW	215/33-35	Parallel	Water Hut	To be Relocated
15	JUDW - DZP	216/27-29	Parallel	Septic tank	To be Relocated
16	JUDW - DZP	220/11-19	Parallel	Goods Platform (Abandoned)	To be Dismantled
17	JUDW - DZP	220/15-17	Parallel	LC Boundary wall & fencing	To be Dismantled
18	DZP - MFB	223/9-11	Parallel	Pump Room cum Tube Well	To be Dismantled
19	DZP - MFB	227/3-5	Parallel	Pump Room	To be Dismantled
20	DZP - MFB	227/11-11A	Parallel	Motor Room	To be Dismantled
21	MFB - RAA	233/1-3	Parallel	Railway Quarter (Abandoned)	To be Dismantled
22	MFB - RAA	233/17-19	Parallel	Kaccha Structure	To be Dismantled
23	RAA -TDW	240/1-3	Parallel	Well	To be filled.
24	RAA -TDW	241/3-5	Parallel	Room	To be Dismantled
25	TDW - KES	244/19-21	Parallel	Kaccha Structure	To be Dismantled
26	TDW - KES	244/19-21	Parallel	GRP Guard Room	To be Relocated
27	TDW - KES	247/1-3	Parallel	Jal Ghar Boundry wall with Chabutra	To be Dismantled
28	TDW - KES	248/1-3	Parallel	Road (Near LC 117)	Road from km 246/3-4 to 248/7-8 to be relocated at the outer edge of Railway boundary by CST contractor
29	KES- DOKY	250/9-11	Parallel	Hand Pump	To be Relocated
30	DOKY - UMB	70948	Ambala Detour	Park Boundry wall	To be Relocated
31	DOKY - UMB	Ambala Detour	Ambala Detour	Turn Table near Microwave Tower	To be dismantled
32	DOKY - UMB	259/13	Parallel	Boundry wall	To be Dismantled
33	UMB - UMC	262/27-31	Parallel	Goods Platform (Abandoned)	To be Dismantled
34	UMB - UMC	262/45-47	Parallel	Watch Tower	To be Relocated
35	UMB - UMC	263/1-3	Parallel	TLR Office (Abandoned)	To be Dismantled
36	UMB - UMC	264/1-3	Parallel	Chabutra	To be Relocated
37	UMB - UMC	263/5-7	Parallel	Watch Tower	To be Relocated
38	UMB - UMC	263/21-23	Parallel	Bridge Slab (Abandoned)	To be Dismantled
39	UMB - UMC	264/1-3	Parallel	Iron Gate	To be Dismantled
40	UMB - UMC	264/21-23	Parallel	Bridge (Steel Girder)	To be Dismantled
41	UMB - UMC	264/33-35	Parallel	Water Pipeline	To be Relocated
42	UMB - UMC	267/5-11	Parallel	Pucca Structure	To be Dismantled
43	UMB - UMC	267/11-13	Parallel	Pucca Structure	To be Dismantled
44	UMB - UMC	268/3-21	Parallel	Existing wall to be broken down	To be Dismantled
45	UMB - UMC	269/1-269/13	Parallel	Boundary wall	To be Dismantled
46	UMB - UMC	269/13-15	Parallel	Shops	To be Dismantled
47	UMC - SMU	269/21-23	Parallel	Porter Shed	To be Relocated
48	UMC - SMU	269/29-31	Parallel	Pucca Structure	To be Dismantled
49	UMC - SMU	269/31 -270/3	Parallel	Deep Drain Nala	To be Relocated
50	UMC - SMU	270/15-17	Parallel	Well	To be filled.

Table No.18					
Contract Package 301					
Chartered Utility List - Civil Structures					
S.No.	Section	KM (IR)/ Chainage (DFCC)	Parallel/ Detour	Description	Action Required
51	UMC - SMU	272/9-11	Parallel	Pucca Structure Boundary	To be Dismantled
52	UMC - SMU	272/9-11	Parallel	Toilet	To be Dismantled
53	SMU - RPJ	281/13-19	Parallel	Drain	To be Channellised.
54	SMU - RPJ	283/17-19	Parallel	Hand Pump	To be Relocated
55	SMU - RPJ	288/15-15A	Parallel	Duty Hut (Abandoned)	To be Dismantled
56	SMU - RPJ	288/26-28	Parallel	Wall	To be Dismantled
57	SMU - RPJ	289/12A	Parallel	Wall at Rajpura Station area	To be Dismantled
58	RPJ - SBJ	290/4 -16	Parallel	Railway Boundary wall	To be Dismantled
59	SDY - SIR	307/32-34	Parallel	Duty Hut (Abandoned)	To be Dismantled
60	SDY - SIR	310/26 - 312/28	Parallel	Road	To be Relocated
61	SDY - SIR	312/27 -313/5	Parallel	Road	To be Relocated
62	SDY - SIR	314/16-18	Parallel	Duty Hut (Abandoned)	To be Dismantled
63	SDY - SIR	314/18-20	Parallel	ROB Stair Case	To be Dismantled
64	SDY - SIR	124900	Sirhind Detour	Well	To be filled.
65	SDY - SIR	315/6-10	Parallel	Boundary wall	To be Relocated
66	SIR - GVG	321/28-30	Parallel	Well	To be filled.
67	GVG- KNN	327/7-11	Parallel	Railway Quarter Type - 1 (Abandoned)	To be Dismantled
68	GVG- KNN	327/11-13	Parallel	Temporary Structure	To be Dismantled
69	GVG- KNN	331/13-15	Parallel	Duty Hut (Abandoned)	To be Dismantled
70	GVG- KNN	332/17-19	Parallel	Railway Quarter Type - 1 (Abandoned)	To be dismantled
71	GVG- KNN	332/17-19	Parallel	Duty Hut (Abandoned)	To be Dismantled
72	GVG- KNN	332/35 - 333/1	Parallel	Road Behind Goods Platform	To be Dismantled
73	KNN - CHA	333/3-5	Parallel	GRP Compound wall, Generator Room (Khanna Station)	To be Dismantled
74	KNN - CHA	333/5-7	Parallel	Well	To be filled.
75	KNN - CHA	336/21-23	Parallel	Well	To be filled.
76	KNN - CHA	337/29 - 338/15	Parallel	Road	To be Relocated
77	CHA - DOA	344/11-13	Parallel	Road	To be Relocated
78	DOA - SNL	353/9-11	Parallel	Vegetable Oil Pipeline	To be Relocated
RELIGIOUS STRUCTURES					
79	SSW - KNZ	202/43-45	Parallel	Temple	To be Relocated.
80	KNZ - JUD	210/15-17	Parallel	Structures in temple complex	To be Relocated up to the extent required for passage of DFCC track.
81	JUD - JUDW	215/7-11	Parallel	Peer Baba Majhar	To be Relocated.
82	JUD - JUDW	215/13-15	Parallel	Temple	To be Relocated.
83	JUD - JUDW	215/19-21	Parallel	Temple	To be Relocated.
84	DZP - MFB	224/9-11	Parallel	Peer Baba Majhar	To be Relocated.
85	KES - DOKY	249/5-7	Parallel	Peer Baba Majhar	To be Relocated.
86	DOKY - UMB	67663	Parallel	Temple	To be Relocated
87	UMB - UMC	262/49-51	Parallel	Peer Baba Majhar	To be Relocated.
88	UMB - UMC	265/15-17	Parallel	Temple	To be Relocated.
89	UMB - UMC	266/19-21	Parallel	Majhar	To be Relocated.

Table No. 19
Contract Package 301

Chartered Utility List - Electrical				
S. No.	Section	KM (IR)/ Chainage (DFCC)	Description	Remarks/Contract planning proposed.
1	Pilkhani Station	Station Area	LT-XLPE Cables 250mtrs	To be relocated through CST contractor
2	Pilkhani - Sarsawa	189/13-15	HT line 11 KV	To be relocated through CST contractor
3	Pilkhani - Sarsawa	189/13-15	LT line 440V	To be relocated through CST contractor
4	Pilkhani - Sarsawa	188/31 - 189/13	LT line 440V	To be relocated through CST contractor
5	Pilkhani - Sarsawa	191/17-19	Transformer - 11 KV/440 V	To be relocated through CST contractor
6	Pilkhani - Sarsawa	189/21 - 192/25	HT line (UG)	To be relocated through CST contractor
7	Pilkhani - Sarsawa	192/27	HT line 11 KV	To be relocated through CST contractor
8	Pilkhani - Sarsawa	192/25-27	HT line 11 KV	To be relocated through CST contractor
9	Sarsawa Station	Station Area	LT 3 Phase 4 wire	To be relocated through CST contractor
10	Sarsawa - Kalanaur	194/5-7	HT line of 11 KV with Transformer	To be relocated through CST contractor
11	Sarsawa - Kalanaur	194/5-7	LT Line	To be relocated through CST contractor
12	Sarsawa - Kalanaur	195/21-23	HT line 11 KV	To be relocated through CST contractor
13	Sarsawa - Kalanaur	196/7-9	LT line	To be relocated through CST contractor
14	Sarsawa - Kalanaur	200/5-7	HT wire 11 KV (UG)	To be relocated through CST contractor
15	Sarsawa - Kalanaur	202/7 - 203/15A	HT line 11 KV	To be relocated through CST contractor
16	Kalanaur - Jagadhari	204/21-23	Electric Box	To be relocated through CST contractor
17	Kalanaur - Jagadhari	209/29-31	HT line 11 KV	To be relocated through CST contractor
18	Kalanaur - Jagadhari	210/15-17	HT line 11 KV	To be relocated through CST contractor
19	Jagadhari	Station Area	LT 3 Phase 8 wire & Cable	To be relocated through CST contractor
20	Jagadhari - Jagadhari Workshop	211/33-35	LT line 440V	To be relocated through CST contractor
21	Jagadhari - Jagadhari Workshop	212/17-29	LT line 440V	To be relocated through CST contractor
22	Jagadhari - Jagadhari Workshop	213/15-21	LT line 440V	To be relocated through CST contractor
23	Jagadhari - Jagadhari Workshop	213/23-25	HT line 11 KV	To be relocated through CST contractor
24	Jagadhari - Jagadhari Workshop	215/9-11	Transformer 100 KVA	To be relocated through CST contractor
25	Jagadhari - Jagadhari Workshop	215/11-13	Transformer 63 KVA	To be relocated through CST contractor
26	Jagadhari - Jagadhari Workshop	215/11-29	HT line 11 KV	To be relocated through CST contractor
27	Jagadhari - Jagadhari Workshop	215/11-29	LT line 440V	To be relocated through CST contractor
28	Jagadhari Workshop - Darajpur	216/7-9	HT Line - 11 KV (UG)	To be relocated through CST contractor
29	Jagadhari Workshop - Darajpur	218/21-23	L T Line	To be relocated through CST contractor
30	Jagadhari Workshop - Darajpur	218/25-27	L T Line	To be relocated through CST contractor
31	Jagadhari Workshop - Darajpur	220/13-15	HT Line 11 KV	To be relocated through CST contractor
32	Jagadhari Workshop - Darajpur	220/13-15	Transformer - 35 KVA	To be relocated through CST contractor
33	Darajpur - Mustafabad	223/9-11	LT line 440V	To be relocated through CST contractor
34	Darajpur - Mustafabad	223/23 - 224/1	LT line 440V	To be relocated through CST contractor
35	Darajpur - Mustafabad	223/23 - 224/1	HT Line 11 KV	To be relocated through CST contractor
36	Darajpur - Mustafabad	224/5-7	HT Line - 11KV (UG)	To be relocated through CST contractor
37	Darajpur - Mustafabad	226/25-27	HT Line 11 KV (UG)	To be relocated through CST contractor
38	Darajpur - Mustafabad	227/3-5	LT line 440V	To be relocated through CST contractor
39	Mustafabad - Barara	229/5-7	HT Line - 11KV (UG)	To be relocated through CST contractor
40	Mustafabad - Barara	229/9-11	HT Line - 11KV (UG)	To be relocated through CST contractor
41	Barara Station	Station Area	LT Over Head Line	To be relocated through CST contractor
42	Barara -Tandwal	238/13-15	HT - 11 KV (UG)	To be relocated through CST contractor

Table No. 19
Contract Package 301

Chartered Utility List - Electrical				
S. No.	Section	KM (IR)/ Chainage (DFCC)	Description	Remarks/Contract planning proposed.
43	Barara -Tandwal	241/5-7	Transformer - 35 KVA	To be relocated through CST contractor
44	Barara -Tandwal	242/15-17	J. Box Electrical	To be relocated through CST contractor
45	Tandwal Station	Station Area	LT 3 Phase 4 wire	To be relocated through CST contractor
46	Tandwal - Kesri	246/19-21	HT Line 11 KV	To be relocated through CST contractor
47	Tandwal - Kesri	248/17-23	LT Line	To be relocated through CST contractor
48	Keseri Station	Station Area	H Pole with Transfarmer	To be relocated through CST contractor
49	Kesri - Dukheri	254/31 - 255/1	LT line 440V	To be relocated through CST contractor
50	Kesri - Dukheri	254/31 - 255/1	Electric Junction Box	To be relocated through CST contractor
51	Dukheri - Ambala	257/21-29	LT line 440V	To be relocated through CST contractor
52	Dukheri - Ambala	258/15-17	Street Lite Pole	To be relocated through CST contractor
53	Dukheri - Ambala	63150	LT Line	To be relocated through CST contractor
54	Dukheri - Ambala	68000	LT line 440V	To be relocated through CST contractor
55	Dukheri - Ambala	68000	HT Line - 11 KV	To be relocated through CST contractor
56	Dukheri - Ambala	68550	3 HT Line 11 KV	To be relocated through CST contractor
57	Dukheri - Ambala	68600	HT Line 11 KV (4 Circuit)	To be relocated through CST contractor
58	Dukheri - Ambala	68630	3 Nos. HT Line 11 KV	To be relocated through CST contractor
59	Dukheri - Ambala	68800	LT Line 440V (With 4 Conductors)	To be relocated through CST contractor
60	Dukheri - Ambala	68800	HT Line 11 KV	To be relocated through CST contractor
61	Dukheri - Ambala	68805	HT Line 11 KV	To be relocated through CST contractor
62	Dukheri - Ambala	69850	HT Line 11 KV	To be relocated through CST contractor
63	Dukheri - Ambala	70050	2 HT Line 11 KV each	To be relocated through CST contractor
64	Dukheri - Ambala	70400	HT Line 11 KV	To be relocated through CST contractor
65	Dukheri - Ambala	70660	HT Line 11 KV	To be relocated through CST contractor
66	Dukheri - Ambala	70750	LT Line 440v (With 7 Conductor)	To be relocated through CST contractor
67	Dukheri - Ambala	70900 - 70836	LT line 440V	To be relocated through CST contractor
68	Dukheri - Ambala	70948	LT line 440V	To be relocated through CST contractor
69	Dukheri - Ambala	Detour	2 Nos. LT line	To be relocated through CST contractor
70	Dukheri - Ambala	Detour	2 Nos. HT line 11 KV	To be relocated through CST contractor
71	Dukheri - Ambala	Detour	LT line	To be relocated through CST contractor
72	Dukheri - Ambala	Detour	HT line 11 KV	To be relocated through CST contractor
73	Ambala Stn	Station Area	L T 3 ph 12 wire	To be relocated through CST contractor
74	Ambala Stn	Station Area	2 Nos. L T 3 ph 6 wire	To be relocated through CST contractor
75	Ambala Stn	Station Area	LT 3ph 8 wire	To be relocated through CST contractor
76	Ambala Stn	Station Area	3 Nos. 11KV OH	To be relocated through CST contractor
77	Ambala Stn	Station Area	3 Nos. LT-XLPE 3.5* 50 Sqmm Cable	To be relocated through CST contractor
78	Ambala Stn	Station Area	HT-XLPE 3*120 Sqmm Cable	To be relocated through CST contractor
79	Ambala Stn	Station Area	LT-XLPE 3.5* 70 Sqmm Cable	To be relocated through CST contractor
80	Ambala Stn	Station Area	LT-XLPE 3.5* 150 Sqmm Cable	To be relocated through CST contractor
81	Ambala Stn	Station Area	High Mast Tower	To be relocated through CST contractor
82	Ambala Stn	Station Area	RRI Sub Station	To be relocated through CST contractor
83	Ambala - Ambala City	262/35-37	HT line (UG)	To be relocated through CST contractor
84	Ambala - Ambala City	263/17-19	Electric Box 440V & High mast tower	To be relocated through CST contractor

Table No. 19
Contract Package 301

Chartered Utility List - Electrical				
S. No.	Section	KM (IR)/ Chainage (DFCC)	Description	Remarks/Contract planning proposed.
85	Ambala - Ambala City	267/5-11	HT Line 11 KV	To be relocated through CST contractor
86	Ambala City Stn.	Ambala City	LT XLPE cable/4*70	To be relocated through CST contractor
87	Ambala City - Shambhu	270/15-29	LT line 440V	To be relocated through CST contractor
88	Ambala City - Shambhu	271/19-21	HT line (UG) 11 KV	To be relocated through CST contractor
89	Ambala City - Shambhu	275/27 - 276/21	2 Transformers+11 KV O H	To be relocated through CST contractor
90	Ambala City - Shambhu	275/27 - 276/21	HT line 11 KV	To be relocated through CST contractor
91	Ambala City - Shambhu	278/13-15	HT line 11 KV (UG)	To be relocated through CST contractor
92	Shambhu - Rajpura	279/13-17	LT line 440V	To be relocated through CST contractor
93	Shambhu - Rajpura	280/15-17	Transformer 11 KV /440V	To be relocated through CST contractor
94	Shambhu - Rajpura	280/15-17	L TLine 440V	To be relocated through CST contractor
95	Shambhu - Rajpura	281/11-13	Transformer with 11KV Line	To be relocated through CST contractor
96	Shambhu - Rajpura	281/11-13	LT line 440V	To be relocated through CST contractor
97	Shambhu - Rajpura	281/29 - 282/1	Transformer 11 KVA	To be relocated through CST contractor
98	Shambhu - Rajpura	281/29 - 282/1	HT line	To be relocated through CST contractor
99	Shambhu - Rajpura	281/7-9	HT Line with Transformer	To be relocated through CST contractor
100	Shambhu - Rajpura	286/3-5	LT line	To be relocated through CST contractor
101	Shambhu - Rajpura	287/3-5	2 Nos. HT Line with Transformer	To be relocated through CST contractor
102	Shambhu - Rajpura	287/3-5	L T Line	To be relocated through CST contractor
103	Shambhu - Rajpura	287/15-17	11 KV U/G	To be relocated through CST contractor
104	Shambhu - Rajpura	288/15-23	HT Line 11 KV	To be relocated through CST contractor
105	Shambhu - Rajpura	288/15-23	HT Line (UG)	To be relocated through CST contractor
106	Shambhu - Rajpura	288/24-26	HT line 11 KV (UG)	To be relocated through CST contractor
107	Shambhu - Rajpura	288/26-28	LT line	To be relocated through CST contractor
108	Rajpura - Sarai Banjara	289/38-290/4	L T line	To be relocated through CST contractor
109	Rajpura - Sarai Banjara	290/13-23	LT line with Street Lights	To be relocated through CST contractor
110	Rajpura - Sarai Banjara	297/12-16	2 Nos. HT line 11 KV	To be relocated through CST contractor
111	Rajpura - Sarai Banjara	298/20-22	2 Nos. 11 KV HT line	To be relocated through CST contractor
112	Rajpura - Sarai Banjara	298/24-26	220 V AC loc box	To be relocated through CST contractor
113	Rajpura - Sarai Banjara	298/34-36	HT line (UG)	To be relocated through CST contractor
114	Rajpura - Sarai Banjara	299/6-8	LT line	To be relocated through CST contractor
115	Sarai Banjara - Sadhugarh	300/2 - 8	HT line	To be relocated through CST contractor
116	Sarai Banjara - Sadhugarh	300/8-10	HT line 11 KV	To be relocated through CST contractor
117	Sarai Banjara - Sadhugarh	304/6-8	LT Line	To be relocated through CST contractor
118	Sadhugarh - Sirhind	312/24-26	HT line 11 KV (UG)	To be relocated through CST contractor
119	Sadhugarh - Sirhind	313/20-22	HT line 11 KV (UG)	To be relocated through CST contractor
120	Sadhugarh - Sirhind	313/21-23	HT Line	To be relocated through CST contractor
121	Sadhugarh - Sirhind	314/16-18	LT Line	To be relocated through CST contractor
122	Sadhugarh - Sirhind	314/16-18	HT line 11 KV (UG)	To be relocated through CST contractor
123	Sadhugarh - Sirhind	314/16-18	HT line 11 KV (UG)	To be relocated through CST contractor
124	Sadhugarh - Sirhind	sirhind stn	L T 3 ph 12 wire	To be relocated through CST contractor
125	Sadhugarh - Sirhind	sirhind stn	Pump house with pump and motor	To be relocated through CST contractor
126	Sirhind - Mandi Gobindgarh	124900	33 of 35 LT line 440V	To be relocated through CST contractor

Table No. 19
Contract Package 301

Chartered Utility List - Electrical				
S. No.	Section	KM (IR)/ Chainage (DFCC)	Description	Remarks/Contract planning proposed.
127	Sirhind - Mandi Gobindgarh	125156	2 Nos. LT Line	To be relocated through CST contractor
128	Sirhind - Mandi Gobindgarh	125156	HT Line	To be relocated through CST contractor
129	Sirhind - Mandi Gobindgarh	125361	HT Line 11KV O H	To be relocated through CST contractor
130	Sirhind - Mandi Gobindgarh	125400	2 Nos. LT Line	To be relocated through CST contractor
131	Sirhind - Mandi Gobindgarh	126450	HT Line	To be relocated through CST contractor
132	Sirhind - Mandi Gobindgarh	126947	11 KV Pole with Transformer	To be relocated through CST contractor
133	Sirhind - Mandi Gobindgarh	127200	HT Line	To be relocated through CST contractor
134	Sirhind - Mandi Gobindgarh	127200	HT Line 11 KV O H	To be relocated through CST contractor
135	Sirhind - Mandi Gobindgarh	127300	HT Line 11 KV O H	To be relocated through CST contractor
136	Sirhind - Mandi Gobindgarh	127470	HT Line 11 KV	To be relocated through CST contractor
137	Sirhind - Mandi Gobindgarh	127845	LT Line 220 V	To be relocated through CST contractor
138	Sirhind - Mandi Gobindgarh	127845	2 Nos. HT Line 11 KV	To be relocated through CST contractor
139	Sirhind - Mandi Gobindgarh	128850	HT Line 11 KV	To be relocated through CST contractor
140	Sirhind - Mandi Gobindgarh	129280	HT Line 11 KV	To be relocated through CST contractor
141	Sirhind - Mandi Gobindgarh	129400	4 Nos. HT Line 11 KV	To be relocated through CST contractor
142	Sirhind - Mandi Gobindgarh	129400	L T Line	To be relocated through CST contractor
143	Sirhind - Mandi Gobindgarh	129557	2 Nos. HT Line 11 KV	To be relocated through CST contractor
144	Sirhind - Mandi Gobindgarh	129557	2 Nos. HT Line 11 KV	To be relocated through CST contractor
145	Sirhind - Mandi Gobindgarh	317/11-13	HT Line 11 KV	To be relocated through CST contractor
146	Sirhind - Mandi Gobindgarh	320/21-27	HT Line 11 KV	To be relocated through CST contractor
147	Sirhind - Mandi Gobindgarh	320/25-27	HT Line 11 KV (UG)	To be relocated through CST contractor
148	Sirhind - Mandi Gobindgarh	321/18-20	LT Line 220V	To be relocated through CST contractor
149	Sirhind - Mandi Gobindgarh	321/7-13	2 Nos. HT Line 11 KV	To be relocated through CST contractor
150	Sirhind - Mandi Gobindgarh	323/6-8	2 Nos. HT Line 11 KV	To be relocated through CST contractor
151	Sirhind - Mandi Gobindgarh	323/8-10	HT Line 11 KV (UG)	To be relocated through CST contractor
152	Sirhind - Mandi Gobindgarh	324/15-31	LT Line	To be relocated through CST contractor
153	Mandi Gobindgarh - Khanna	324/27-29	Pump house with pump and motor	To be relocated through CST contractor
154	Sirhind - Mandi Gobindgarh	324/27-29	HT Line 11 KV with Transformer	To be relocated through CST contractor
155	Mandi Gobindgarh - Khanna	324/31-37	LT Line	To be relocated through CST contractor
156	Mandi Gobindgarh - Khanna	324/33-325/5	3 Nos. Flood Light Tower	To be relocated through CST contractor
157	Mandi Gobindgarh - Khanna	325/29-31	HT Line 11 KV (UG)	To be relocated through CST contractor
158	Mandi Gobindgarh - Khanna	327/9-13	L T line to qtrs. To be dismantled	To be relocated through CST contractor
159	Mandi Gobindgarh - Khanna	330/15-17	2 Nos. HT Line 11 KV (UG)	To be relocated through CST contractor
160	Mandi Gobindgarh - Khanna	331/7-9	3 Nos. HT Line 11 KV (UG)	To be relocated through CST contractor
161	Mandi Gobindgarh - Khanna	331/9-13	LT Line	To be relocated through CST contractor
162	Mandi Gobindgarh - Khanna	331/19-21	Flood Light Tower	To be relocated through CST contractor
163	Mandi Gobindgarh - Khanna	332/19-33	LT Line	To be relocated through CST contractor
164	Khanna - Chawa Pail	333/13 - 19	HT Line with Transformer	To be relocated through CST contractor
165	Khanna - Chawa Pail	333/3-5	LT Line	To be relocated through CST contractor
166	Khanna - Chawa Pail	333/5-7	LT Line	To be relocated through CST contractor
167	Khanna - Chawa Pail	333/7-9	Generator	To be relocated through CST contractor
168	Khanna - Chawa Pail	334/6-8	HT Line (UG)	To be relocated through CST contractor

Table No. 19
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Chartered Utility List - Electrical				
S. No.	Section	KM (IR)/ Chainage (DFCC)	Description	Remarks/Contract planning proposed.
169	Khanna - Chawa Pail	334/6-10	LT Line 440 V	To be relocated through CST contractor
170	Khanna - Chawa Pail	336/21-23	LT Line	To be relocated through CST contractor
171	Khanna - Chawa Pail	337/29 - 338/01	LT Line	To be relocated through CST contractor
172	Khanna - Chawa Pail	338/13-19	LT Line	To be relocated through CST contractor
173	Khanna - Chawa Pail	338/17-19	LT Line	To be relocated through CST contractor
174	Khanna - Chawa Pail	338/27-29	LT Line	To be relocated through CST contractor
175	Khanna - Chawa Pail	339/3-7	LT Line	To be relocated through CST contractor
176	Khanna - Chawa Pail	339/7-9	HT Line	To be relocated through CST contractor
177	Khanna - Chawa Pail	339/7-9	Transformer	To be relocated through CST contractor
178	Khanna - Chawa Pail	339/9-23	LT Line	To be relocated through CST contractor
179	Khanna - Chawa Pail	341/5-7	Electricity Meters	To be relocated through CST contractor
180	Khanna - Chawa Pail	341/29 - 342/1	HT Line 11 KV (UG)	To be relocated through CST contractor
181	Khanna - Chawa Pail	343/19-21	LT Line	To be relocated through CST contractor
182	Khanna - Chawa Pail	343/19-21	LT Line	To be relocated through CST contractor
183	Khanna - Chawa Pail	343/19-33	L T line O H	To be relocated through CST contractor
184	Khanna - Chawa Pail	343/33-35	L T line O H	To be relocated through CST contractor
185	Khanna - Chawa Pail	343/35-37	LT Line	To be relocated through CST contractor
186	Khanna - Chawa Pail	344/11-13	5 Nos. Street Light Poles	To be relocated through CST contractor
187	Chawa Pail - Doraha	345/5-15	HT Line	To be relocated through CST contractor
188	Chawa Pail - Doraha	345/5-15	HT Line 11 KV O H	To be relocated through CST contractor
189	Chawa Pail - Doraha	345/5-7	HT Line 11 KV (UG)	To be relocated through CST contractor
190	Chawa Pail - Doraha	345/27-29	LT Line	To be relocated through CST contractor
191	Chawa Pail - Doraha	346/1-5	LT Line	To be relocated through CST contractor
192	Chawa Pail - Doraha	346/17-21	LT Line	To be relocated through CST contractor
193	Chawa Pail - Doraha	348/13-15	LT Line	To be relocated through CST contractor
194	Chawa Pail - Doraha	348/27-29	HT Line 11 KV (UG)	To be relocated through CST contractor
195	Chawa Pail - Doraha	351/10-12	11 KV	To be relocated through CST contractor
196	Chawa Pail - Doraha	352/7-9	HT 11 KV (UG)	To be relocated through CST contractor
197	Chawa Pail - Doraha	352/25 - 353/1	11KV H T	To be relocated through CST contractor
198	Chawa Pail - Doraha	352/27-29	HT Line 11 KV (UG)	To be relocated through CST contractor
199	Chawa Pail - Doraha	353/9-11	LT Line	To be relocated through CST contractor
200	Chawa Pail - Doraha	353/9-11	LT Line	To be relocated through CST contractor
201	Doraha stn	353/12	Elect location box	To be relocated through CST contractor
202	Doraha stn	353/-	L T O H line DN side	To be relocated through CST contractor
203	Doraha stn	353/-	L T O H line DN side	To be relocated through CST contractor
204	Doraha - Sanehwal	354/5-7	HT Line 11 KV (UG)	To be relocated through CST contractor
205	Doraha - Sanehwal	354/17-19	HT Line 11 KV (UG)	To be relocated through CST contractor
206	Doraha - Sanehwal	354/19-21	2 Nos. HT Line 11 KV (UG)	To be relocated through CST contractor
207	Doraha - Sanehwal	357/21 - 358/3	HT Line 11 KV	To be relocated through CST contractor
208	Doraha - Sanehwal	359/5-7	2 Nos. HT Line 11 KV	To be relocated through CST contractor

Note: 1. Dismantling/cutting of rail/tubular poles/MS fabricated high mast towers 30 mt high alongwith overhead conductors, fittings, infringing the DFCC alignment as per SSOD and stacking the dismantled material as per site requirement or handing over to owner of material will be done by the CST contractor