

Annexure-I

KOLDAM - LUDHIANA 400kV D/C TRANSMISSION LINE								
FINAL TOWER SHEDULE FROM KOLDAM TO LUDHIANA								
Note: * - The details mentioned in Remarks Column is Indicatively only. The bidder has to evaluate and consider additional details if required for BOQ/any Estimation.								
Tower No.	Terrain	Type of Tower	Angle of Deviation	Span (M)	R.L	Remarks*	UTM Co-ordinates (Zone 43)	
							Easting	Northing
	Hilly			75	705.20		677947.00	3474122.00
1	Hilly	DD+6	00°35'38"RT		712.96		677881.00	3474113.00
				375		Tar Road Crossing, 33KV, 11KV SubStation (left: 40.0m Building) , House (Right:15.5m), Well, 2 nos Tar Road, Guset House Center of Alignment Line		
2	Hilly	DC+6	20°10'37" RT		735.21		677518.00	3474041.01
				335		Tar Road Crossing ,House (Center of Alignment)		
3	Hilly	DC-4.5	19°37'37" LT		704.69		677188.00	3474077.01
				300		Tar Road Crossing		
4	Hilly	DD-3	42°20'28" RT		663.67		676901.00	3474009.00
				130		-		
5	Hilly	DC+0	27°06'57" RT		648.09		676785.00	3474070.01
				370		2nos 400 KV D/C Line Crossing (E.C=5.60mtr) Tar Road Crossing, LT Line Crossing to be Removed		
6	Hilly	DCR+4.5	25°49'54" LT		734.37		676593.00	3474377.01
				351		-		
7	Hilly	DCR+0	22°53'34" LT		935.43		676291.00	3474557.00
				68		-		
8	Hilly	DDR+4.5	56°06'03" LT		934.43		676228.00	3474560.01
				412		-		
9	Hilly	DD+4.5	47°08'56" RT		740.08		675949.00	3474257.01
				105		220KV Ropar- ACC Cement Plant T/Line Crossing (E.C=9.955mtr)		
10	Hilly	DC-4.5	15°30'41" LT		721.85		675844.00	3474257.01
				149		Cart Track		
11	Hilly	DD+3	35°35'26" LT		708.02		675691.00	3474221.00
				127		2nos LT Line Crossing (E.C=11.967mtr &12.684mtr) , Building Center Of		
12	Hilly	DC+0	26°04'04" RT		703.22		675619.00	3474122.01
				386		Nala, Building (Right:24.0m)		
13	Hilly	DC+4.5	23°06'23" LT		690.94		675267.00	3473964.01
				212		Canal , 11KV Line Crossing (E.C=12.794mtr), Telecom Line Crossing, Well		
14	Hilly	DB+0	03°48'55" LT		691.00		675124.00	3473808.01
				492		Tar Road Crossing , LT Line Crossing , House (Left:20.03mtr)		
15	Hilly	DCR+6	15°32'59"LT		837.50		674822.00	3473424.01
				132		-		
16	Hilly	DBR+0	14°31'19"LT		819.40		674771.00	3473298.00
				653		Tar Road Crossing ,House (Left:18.03mtr), LT Line Crossing , Nala		
17	Hilly	DD-4.5	36°59'53" RT		710.38		674679.00	3472652.00
				206		-		
18	Hilly	DB+6	11°52'12" RT		738.88		674524.00	3472517.00
				197		132 KV D/C T/Line Crossing (E.C=6.1mtr) & 132 KV S/C T/Line Crossing (E.C=8.4mtr) , LT Line Crossing		
19	Hilly	DC+9	15°30'27" LT		726.00		674355.00	3472418.01
				396		-		
20	Hilly	DD+6	26°41'09" LT		696.18		674090.00	3472127.01
				624		-		
21	Hilly	DCR-1.5	02°55'04" RT		832.91		673907.00	3471520.00
				736		LT Line Crossing		
22	Hilly	DD+6	40°32'30" LT		989.51		673664.00	3470841.01
				542		-		
23	Hilly	DB-3	03°59'22" RT		1031.68		673854.00	3470332.01
				176		-		
24	Hilly	DC-1.5	17°23'40" RT		1014.61		673909.00	3470165.01
				544		-		
25	Hilly	DB-3	06°56'17" RT		987.64		673933.00	3469625.01
				170		-		
26	Hilly	DB-4.5	01°06'41" RT		981.50		673927.00	3469449.00
				334		-		
27	Hilly	DCR+6	03°19'20" RT		914.50		673893.00	3469114.01
				727		Nala, Center of Alignment House		
28	Hilly	DC+0	24°02'59"RT		710.58		673777.00	3468390.00
				110		Nala		
29	Hilly	DB+0	12°33'27"LT		714.25		673711.00	3468308.01
				201		Nala, House (Right:22.30mtr)		
30	Hilly	DB-4.5	06°48'22" LT		721.73		673644.00	3468110.00
				380		Road Crossing		
31	Hilly	DC-4.5	28°09'54" LT		721.83		673550.00	3467747.00
				258		J.P.Road Crossing		
32	Hilly	DC-4.5	24°45'55" RT		730.74		673614.00	3467494.00

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KOLDAM - LUDHIANA 400KV D/C TRANSMISSION LINE

FINAL TOWER SCHEDULE FROM KOLDAM TO LUDHIANA

Note: * - The details mentioned in Remarks Column is Indicatively only. The bidder has to evaluate and consider additional details if required for BOQ/any Estimation.

Tower No.	Terrain	Type of Tower	Angle of Deviation	Span (M)	R.L	Remarks*	UTM Co-ordinates (Zone 43)	
							Easting	Northing
				361		-		
33	Hilly	DC-4.5	18°52'54" RT	274	691.20	-	673549.00	3467138.00
34	Hilly	DD-3	29°42'47" LT	559	685.04	LT Line Crossing	673414.00	3466905.00
35	Hilly	DB+0	05°17'27" RT	282	672.66	2 nos 11KV Line Crossing (E.C=31.14mtr&29.46mtr)	673417.00	3466356.01
36	Hilly	DCR+0	15°22'44" RT	120	736.47	-	673395.00	3466055.00
37	Hilly	DB+1.5	06°48'36" RT	663	698.47	River Crossing , Road Crossing	673352.00	3465943.00
38	Hilly	DD+6	29°04'44" LT	420	731.24	2 nos LT Line Crossing (E.C=7.06mtr) , Green House	673049.00	3465366.01
39	Hilly	DB+4.5	13°01'10" LT	401	741.83	2 nos 11KV Line Crossing (E.C=15.0mtr&14.41mtr),Nala House (Left:20.5mtr)	673062.00	3464943.00
40	Hilly	DD-3	56°07'51" RT	276	762.98	2 Nos LT and 2Nos 11KV Line Crossing (E.C=7.84mtr,10.02mtr,11.05mtr&10.70mtr), NH-88 Road Crossing	673164.00	3464561.00
41	Hilly	DD+0	50°15'31" LT	397	762.79	-	672987.00	3464347.00
42	Hilly	DB+6	02°08'06" LT	420	764.18	11KV Line Crossing , Road Crossing	673038.00	3463955.00
43	Hilly	DB+6	07°40'9" RT	380	777.20	-	673125.00	3463551.01
44	Hilly	DB+0	02°49'40" RT	410	786.82	Nala , 2 nos LT LineCrossing (E.C = 5.92 mtr&12.24 mtr)	673156.00	3463174.01
45	Hilly	DB+6	06°20'58" LT	370	795.83	2 nos Nala , LT Line Crossing (E.C=11.77 mtr), Foot Path Way	673163.00	3462771.01
46	Hilly	DB+0	12°13'55" RT	285	823.49	Nala , LT Line Crossing (E.C=25.76 mtr), Foot Path Way	673213.00	3462397.01
47	Hilly	DB-4.5	00°6'53" LT	340	846.01	Nala ,NH-88 Road Crossing 2 nos LT Line Crossing	673196.00	3462098.00
48	Hilly	DD+6	34°00'36" LT	453	843.99	Nala	673184.00	3461751.01
49	Hilly	DD+3	33°56'40" RT	438	862.62	Crat Track , Nala Crossing	673413.00	3461368.00
50	Hilly	DB+0	07°04'56" RT	230	919.05	LT Line Crossing (E.C=8.110mtr) ,NH -88 Road Crossing (Left:Bilaspur) (Right:Shimla), Nala Crossing	673405.00	3460954.01
51	Hilly	DBR-4.5	01°32'49" RT	270	1000.62	-	673363.00	3460707.00
52	Hilly	DC-4.5	20°04'53" RT	224	1054.14	-	673310.00	3460445.00
53	Hilly	DBR-3	05°28'49" LT	152	1022.97	-	673182.00	3460273.01
54	Hilly	DD+0	26°22'45" RT	736	970.17	400KV S/C Line Crossing (E.C=6.70mtr) , LT Line Crossing Tar Road Crossing, Nala Crossing	673111.00	3460139.01
55	Hilly	DD+18	12°44'41" RT	151	865.71	-	672502.00	3459727.00
56	Hilly	DC+0	29°56'01" RT	579	881.20	LT Line Crossing , Small Temple Center Of Alignment	672365.00	3459672.00
57	Hilly	DD+6	30°44'40" RT	598	835.69	LT Line Crossing (E.C=14.206mtr) , Nala Crossing, Road Crossing	671793.00	3459772.01
58	Hilly	DB+4.5	01°34'32" LT	350	705.39	4 Nos LT Line Crossing (E.C=19.764mtr,27.4mtr,13.5mtr&16.557 mtr), Nala Crossing	671337.00	3460150.01
59	Hilly	DC+0	23°08'39" RT	274	706.08	220 KV Line Crossing (E.C=6.700mtr) , Road Crossing	671062.00	3460365.01
60	Hilly	DD+18	17°36'5" LT	267	687.30	LT Line Crossing (E.C=15.00mtr)	670929.00	3460593.00
61	Hilly	DB-4.5	02°19'26" LT	512	699.40	2 nos LT Line Crossing (E.C=15.100mtr& E.C=8.952mtr), Road Crossing, Nala Crossing	670732.00	3460776.00

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Tower No.	Terrain	Type of Tower	Angle of Deviation	Span (M)	R.L	Remarks*	UTM Co-ordinates (Zone 43)	
							Easting	Northing
62	Hilly	DD-4.5	33°15'35" LT		683.69		670354.00	3461120.01
				360		LT Line Crossing (E.C =22.788mtr) , Road Crossing		
63	Hilly	DB-4.5	00°30'34" RT		674.60		669994.00	3461166.00
				230		-		
64	Hilly	DB-4.5	04°57'13" RT		675.92		669765.00	3461205.00
				405		-		
65	Hilly	DC+0	10°19'24" LT		644.89		669370.00	3461303.01
				635		4 nos LT Line Crossing (E.C=8.4mtr, 11.2mtr, 68.562mtr &62.648mtr), Road Crossing, Foot Path Way , Nala Crossing		
66	Hilly	DD-3	20°42'28" LT		692.56		668726.00	3461317.00
				578				
67	Hilly	DD-1.5	43°27'55" RT		778.00		668188.00	3461107.01
				482		Nala Crossing		
68	Hilly	DB-4.5	11°18'52" LT		718.70		667759.00	3461300.01
				300				
69	Hilly	DB-4.5	04°57'3" LT		741.59		667467.00	3461363.01
				500		3 nos LT Line Crossing		
70	Hilly	DB+0	02°19'36" LT		804.35		666964.00	3461423.00
				75		-		
71	Hilly	DB+9	02°33'2" LT		816.38		666887.00	3461433.00
				334		-		
72	Hilly	DCR+0	17°32'35" LT		790.04		666559.00	3461449.01
				120		NH-21(Left : Bilaspur) (Right:Ropar)		
73	Hilly	DBR-4.5	09°12'10" LT		727.15		666447.00	3461422.01
				120		400KV T/Line Under neath Crossing (E.C=11.50mtr)		
74	Hilly	DC+0	19°25'17" LT		691.05		666328.00	3461404.01
				128		-		
75	Hilly	DD-3	57°7'30" LT		666.25		666210.00	3461348.01
				236		-		
76	Hilly	DD-3	33°57'53" RT		633.37		666180.00	3461113.01
				550		3nos 11KV & 1Nos LT Line Crossing (E.C=6.878mtr)		
77	Hilly	DC-3	13°33'08" RT		593.44		665816.00	3460717.01
				772		Govind Sagar River		
78	Hilly	DC-3	12°36'12" RT		565.48		665180.00	3460241.01
				180		LT Line Crossing (E.C=22.32mtr)		
79	Hilly	DB+0	10°19'38" LT		602.67		665025.00	3460172.01
				464		4 Nos LT Line Crossing (E.C=6.25mtr &26.27mtr), Road Crossing		
80	Hilly	DD-3	30°05'24" LT		677.26		664636.00	3459926.00
				334		-		
81	Hilly	DB+4.5	14°14'56" RT		706.64		664486.00	3459624.01
				226		2 nos Road Crossing		
82	Hilly	DD+0	54°25'40" RT		750.83		664339.00	3459451.00
				336		220 kV Line Crossing (E.C=25.470mtr) & LT Line Crossing ,2 nos Tar Road		
83	Hilly	DD+0	42°48'46" LT		798.76		664004.00	3459487.00
				172		3 nos Tar Road		
84	Hilly	DBR-1.5	07°29'06" RT		885.10		663869.00	3459379.01
				190				
85	Hilly	DD+0	31°58'11" LT		953.16		663706.00	3459294.01
				140		-		
86	Hilly	DB-4.5	11°46'20" LT		992.32		663631.00	3459169.00
				115		-		
87	Hilly	DB-3	10°39'44" LT		994.89		663601.00	3459062.01
				290		LT Line Crossing (E.C=20.57mtr)		
88	Hilly	DC-1.5	16°34'06" LT		942.88		663574.00	3458775.01
				778		2nos 11KV and 2 nos LTLine Crossing(E.C =29.05 ,15.74 ,44.15		
89	Hilly	DC-4.5	08°58'44" RT		950.00		663721.00	3458007.01
				145		33 KV Line Crossing (E.C=6.146mtr)		
90	Hilly	DC-4.5	19°24'24" RT		942.80		663719.00	3457859.01
				506		33 KV Line Crossing (E.C=38.83mtr)		
91	Hilly	DD-4.5	45°24'34" RT		950.96		663567.00	3457384.01
				272		LT Line Crossing ,11 KV Line Crossing (E.C=14.35mtr), Road Crossing		
92	Hilly	DB+6	00°15'30" LT		1032.16		663331.00	3457240.01
				178		33 KV Line Crossing (E.C=14.90mtr)		
93	Hilly	DBR+4.5	00°20'36" RT		1107.59		663182.00	3457147.01
				168				
94	Hilly	DDR+4.5	30°26'36" RT		1201.79		663043.00	3457063.01
				312		-		
95	Hilly	DB-4.5	05°19'44" LT		1191.71		662729.00	3457052.00
				190		-		
96	Hilly	DBR+4.5	07°06'01" RT		1162.37		662539.00	3457033.00
				511		11 KV Line Crossing, Cart Track		
97	Hilly	DD+6	28°08'48" LT		1045.80		662034.00	3457027.00
						-		

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Tower No.	Terrain	Type of Tower	Angle of Deviation	Span (M)	R.L	Remarks*	UTM Co-ordinates (Zone 43)	
							Easting	Northing
				570		Cart Track Crossing ,LT Line Crossing		
98	Hilly	DD+0	30°06'05" LT	352	1006.95	-	661535.00	3456752.01
99	Hilly	DCR+0	19°36'38" RT		987.18		661346.00	3456459.01
				374		2 nos 33KV Line Crossing, 2 nos LT Line Crossing TP Line Crossing , NH-21 (Left : Ropar) (Right :Bilaspur)		
100	Hilly	DB-4.5	06°54'30" RT		885.80		661053.00	3456228.00
				640		Road Crossing , Nala Crossing , LT Line crossing		
101	Hilly	DB-4.5	06°58'57" RT		827.47		660520.00	3455889.00
				210		-		
102	Hilly	DCR-4.5	12°19'33" RT		849.12		660330.00	3455794.01
				734		-		
103	Hilly	DC-3	11°25'54" LT		740.19		659616.00	3455630.01
				478		Nala		
104	Hilly	DBR+0	03°11'17" RT		643.80		659177.00	3455441.00
				446		LT Line Crossing, 11 KV Line Crossing (E.C=17.76mtr),Nala Crossing		
105	Hilly	DD-4.5	56°09'04" LT		534.83		658765.00	3455284.00
				468		Nala , 220kV D/C T/Line Crossing (E.C=6.300mtr) , LT Line Crossing(E.C=35.40mtr)		
106	Hilly	DD-1.5	29°14'59" RT		567.33		658661.00	3454821.01
				431				
107	Hilly	DC+0	21°17'15" RT		552.53		658378.00	3454505.01
				113		LT Line Crossing (E.C=18.87 mtr)		
108	Hilly	DC+0	20°42'24" LT		526.85		658271.00	3454461.00
				687		LT Line Crossing (E.C=21.76mtr), Nala Crossing, River Crossing		
109	Hilly	DC+0	15°32'15" RT		467.49		657817.00	3453948.01
				417				
110	Hilly	DC+9	11°12'28" LT		458.22		657467.00	3453729.01
				534				
111	Hilly	DB+9	08°06'54" LT		492.60		657078.00	3453364.01
				398		Tar Road,11 KV Line Crossing (E.C =9.00mtr), Nala		
112	Hilly	DC+0	19°36'57" RT		468.80		656831.00	3453051.01
				320		Tar Road , LT Line & 11 KV Line Crossing (E.C=13.26mtr&13.19mtr)		
113	Hilly	DB+0	05°05'25" LT		443.41		656561.00	3452884.01
				290		11 KV Line Crossing (E.C =7.04mtr)		
114	Hilly	DB+6	00°23'24" LT		410.21		656337.00	3452703.01
				398		Nala,Tar Road ,LT Line Crossing (E.C=9.88mtr)		
115	Plain	DB+0	08°46'03" RT		399.03		656021.00	3452457.01
				314		Cement Road ,11 KV Line Crossing (E.C=12.89mtr)		
116	Plain	DB+0	04°13'51" LT		396.74		655740.00	3452293.00
				330				
117	Plain	DD+9	37°27'55" RT		387.92		655477.00	3452110.01
				255		66 KV Line Crossing (E.C= 6.41mtr)		
118	Plain	DD+9	56°51'34" LT		384.81		655220.00	3452126.01
				330		Cement Road , LT Line Crossing (E.C=14.4mtr)		
119	Plain	DB+6	05°58'37" RT		378.53		655020.00	3451864.00
				320		11 KV Line Crossing (E.C =7.60mtr)		
120	Plain	DA+0			374.17		654804.00	3451632.01
				323		LT Line Crossing (E.C=15.4mtr)		
121	Plain	DB+0	05°57'27" RT		370.56		654589.00	3451399.00
				383				
122	Plain	DA+3			362.65		654309.00	3451138.00
				400		Cement Road, LT Line Crossing		
123	Plain	DA+3			352.86		654009.00	3450860.01
				400				
124	Plain	DA+6			347.22		653712.00	3450591.01
				400		LT Line Crossing (E.C=6.60mtr)		
125	Plain	DA+3			342.23		653410.00	3450329.00
				400		LT Line Crossing		
126	Plain	DA+6			338.22		653115.00	3450061.01
				400		Tar Road, 2 nos 11 KV Line Crossing (E.C =7.00mtr)		
127	Plain	DD+0	41°36'21" LT		333.04		652817.00	3449792.01
				399		Tar Road Crossing		
128	Plain	DA+3			327.57		652772.00	3449397.01
				399		LT Line Crossing (E.C=19.8mtr) , 2nos11 KV Line Crossing (E.C 13.4mtr) ,Tar Road Crossing		

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Tower No.	Terrain	Type of Tower	Angle of Deviation	Span (M)	R.L	Remarks*	UTM Co-ordinates (Zone 43)	
							Easting	Northing
129	Plain	DD+18	56°03'38" RT		323.73		652723.00	3449001.01
				190		220 KV D/C T/Line Crossing (E.C=8.40mtr), 11KV & 2nos LT Line Crossing (E.C=33.8mtr)		
130	Plain	DD+18			321.82		652556.00	3448912.01
				380		220KV S/C T/Line Crossing (E.C=7.00mtr) 11KV Line Crossing ,Tar Road		
131	Plain	DD+18			317.04		652219.00	3448740.01
				320		132KV D/C T/Line Crossing (E.C=7.20mtr)		
132	Plain	DD+9	36°37'40" LT		315.48		651936.00	3448593.00
				343				
133	Plain	DA+6			312.53		651786.00	3448284.01
				380				
134	Plain	DA+3			317.28		651617.00	3447943.01
				290				
135	Plain	DA+0			320.73		651488.00	3447683.01
				330				
136	Plain	DD+0	36°26'57" RT		318.59		651351.00	3447385.00
				378				
137	Plain	DC+0 (TPT)	00°00'00"		313.81		651021.00	3447217.01
				162		Canal ,LT Line Crossing		
138	Plain	DB+0	02°55'5" LT		308.01		650873.00	3447140.01
				246				
139	Plain	DD+0	51°17'44" RT		285.52		650678.00	3447016.00
				227		NH- 21 Crossing(E.C=20.25mtr) (Left :Bilaspur) (Right:Ropar), Canal		
140	Plain	DD+0	18°49'51" LT		279.23		650467.00	3447103.01
				220		Railway Crossing (B G) (E.C=29.046mtr) Electrified line (E.C=22.60mtr).		
141	Plain	DD+18	40°30'35" LT		277.62		650239.00	3447116.00
				200		132KV D/C T/Line Crossing (E.C=8.069mtr) 220KV D/C T/Line Crossing (E.C=8.316mtr).		
142	Plain	DC+6	21°47'46" LT		277.04		650091.00	3446989.01
				308				
143	Plain	DA+0			277.17		649942.00	3446722.01
				318		LT Line Crossing (E.C=13.06mtr) Cart Track		
144	Plain	DD+0	52°09'05" LT		276.51		649787.00	3446441.01
				380		11KV Line Crossing (E.C=7.36mtr)		
145	Plain	DA+0			276.49		649928.00	3446104.00
				380		Tar Road , LT Line & 11KV Line Crossing (E.C =12.37mtr).		
146	Plain	DA+0			276.28		650084.00	3445741.01
				322		Tar Road, Cart Track 11KV< Line Crossing (E.C= 10.16mtr)		
147	Plain	DA+3			276.97		650214.00	3445422.00
				396		Nala, Cart Track , 2 nos LT Line Crossing (E.C=16.34 & 10.16mtr)		
148	Plain	DA+6			276.11		650365.00	3445084.01
				397		Lt line,Crt,2nos11kv line		
149	Plain	DC+6	28°45'45" RT		275.94		650517.00	3444719.01
				396		Cart Track , 11KV Line (E.C =9.25mtr) ,Tar Road, 2nos LT Line Crossing (E.C = 7.49 & 17.35mtr)		
150	Plain	DC+3	21°15'30" LT		274.67		650474.00	3444321.00
				334				
151	Plain	DA+3			273.90		650560.00	3444003.00
				384		Cart Track , LT Line Crossing (E.C=8.800mtr)		
152	Plain	DA+3			273.82		650669.00	3443629.01
				380		11KV Line Crossing (E.C=11.63mtr) , LT Line Crossing (18.12mtr),Cart Track		
153	Plain	DA+0			273.40		650761.00	3443274.00
				370		Nala. 11KV Line Crossing (E.C=11.00mtr)		
154	Plain	DA+3			272.73		650858.00	3442884.00
				370		Crat track ,LT Line Crossing (E.C =7.00mtr)		
155	Plain	DA+0			271.73		650950.00	3442565.00
				320				
156	Plain	DA+0			270.19		651045.00	3442239.01
				380				
157	Plain	DA+0			272.28		651143.00	3441869.00
				360		Crat track		
158	Plain	DA+0			273.12		651240.00	3441525.00
				380		11KV Line crossing (E.C=8.200mtr)		
159	Plain	DD+0	58°45'07" RT		272.11		651337.00	3441157.01
				380				

Annexure-I

KOLDAM - LUDHIANA 400kV D/C TRANSMISSION LINE

FINAL TOWER SCHEDULE FROM KOLDAM TO LUDHIANA

Note: * - The details mentioned in Remarks Column is Indicatively only. The bidder has to evaluate and consider additional details if required for BOQ/any Estimation.

Tower No.	Terrain	Type of Tower	Angle of Deviation	Span (M)	R.L	Remarks*	UTM Co-ordinates (Zone 43)	
							Easting	Northing
160	Plain	DA+0			271.45		651084.00	3440885.01
161	Plain	DD+9	52°43'37" RT	370	271.27		650831.00	3440621.01
162	Plain	DD+9	32°14'06" LT	468	270.60	Satluj River Croosing	650364.00	3440676.00
163	Plain	DA+0		384	271.44		650023.00	3440497.00
164	Plain	DA+0		360	271.35		649697.00	3440330.01
165	Plain	DA+0		380	271.33		649357.00	3440160.01
166	Plain	DA+0		360	270.37		649035.00	3440000.01
167	Plain	DA+0		380	270.17		648692.00	3439830.00
168	Plain	DC+0	23°27'51" LT	280	269.96		648444.00	3439705.01
169	Plain	DB+3	00°19'34" LT	398	269.41		648187.00	3439399.01
170	Plain	DD+25		420	269.13		647921.00	3439090.00
171	Plain	DD+18		277	268.31	220kV D/C T/Line Crossing	647740.00	3438867.00
172	Plain	DD+25	04°19'34" LT	405	268.46	220kV D/C T/Line Crossing	647478.00	3438557.00
173	Plain	DA+9		293	268.25	220kV D/C T/Line Crossing	647306.00	3438315.00
174	Plain	DB+0	08°55'19" RT	410	268.15		647070.00	3437986.00
175	Plain	DA+3		370	269.93		646812.00	3437725.00
176	Plain	DA+0		365	269.48		646553.00	3437463.01
177	Plain	DA+0		377	276.65		646295.00	3437202.00
178	Plain	DA+0		303	272.78		646075.00	3436979.01
179	Plain	DA+0		390	279.96		645800.00	3436702.00
180	Hilly	DA+0		330	295.28		645555.00	3436452.00
181	Hilly	DC+0	15°38'58" RT	336	289.38		645335.00	3436232.01
182	Hilly	DC+6	22°25'26" LT	539	300.35	Nala, Pond	644879.00	3435923.00
183	Hilly	DB+9	01°52'15" RT	183	304.02	Nala	644790.00	3435773.01
184	Hilly	DB+0	13°2'47" LT	489	280.83	SH Road Crossing , LT Line & 11KV Line Crossing, Tar Road ,Nala , Orange Graden ,House(Left=18mtr)	644503.00	3435374.01
185	Hilly	DB+0	06°06'22" LT	453	301.57		644332.00	3434967.01
186	Hilly	DD-1.5	45°11'51" LT	455	341.89		644193.00	3434527.00
187	Hilly	DB-4.5	12°06'35" RT	265	333.56		644321.00	3434290.00
188	Hilly	DD+4.5	23°11'43" RT	600	345.76		644487.00	3433713.00
189	Hilly	DC+4.5	11°13'46" LT	518	346.08		644428.00	3433203.01
190	Hilly	DB+0	02°53'53" RT	534	343.20		644465.00	3432664.00
191	Hilly	DC-4.5	18°44'05" RT	186	352.32		644471.00	3432492.01
192	Hilly	DC+0	22°14'30" RT	448	338.80		644325.00	3432061.00
193	Hilly	DC-4.5	09°59'18" LT	504	341.44		644006.00	3431671.00
194	Hilly	DD-4.5	34°46'21" RT	511	346.70		643768.00	3431230.00
195	Hilly	DB+6	03°02'15" RT	344	377.23		643462.00	3431092.01
196	Hilly	DC+4.5	20°47'23" RT	448	364.00		643067.00	3430890.00
197	Hilly	DB+0	12°31'54" RT	550	374.73		642501.00	3430839.01
198	Hilly	DB+6	11°50'49" LT	247	357.97		642274.00	3430749.00
				483				

Annexure-I

KOLDAM - LUDHIANA 400KV D/C TRANSMISSION LINE

FINAL TOWER SHEDULE FROM KOLDAM TO LUDHIANA

Note: * - The details mentioned in Remarks Column is Indicatively only. The bidder has to evaluate and consider additional details if required for BOQ/any Estimation.

Tower No.	Terrain	Type of Tower	Angle of Deviation	Span (M)	R.L	Remarks*	UTM Co-ordinates (Zone 43)	
							Easting	Northing
199	Hilly	DB-4.5	06°15'38" RT		336.65		641872.00	3430487.01
				344				
200	Hilly	DB-4.5	12°07'03" RT		285.98		641570.00	3430326.01
				495				
201	Hilly	DB+7.5	00°45'3" LT		309.47		641090.00	3430199.01
				221		220KVD/C T/Line Crossing (E.C=7.12mtr)		
202	Hilly	DD+25	16°55'13" LT		271.39		640868.00	3430141.00
				330				
203	Hilly	DC+6	14°52'53" RT		267.70		640587.00	3430000.01
				180				
204	Plain	DC+6	18°13'4" LT		264.80		640461.00	3429892.00
				265		5 nosLT Line Crossing (E.C=6.403mtr), 2 nos NH-Crossing (E.C=16.229mtr) Canal		
205	Plain	DB+0	00°00'00"		263.04		640292.00	3429684.01
				390		2nos LT Line Crossing (E.C=8.484mtr)		
206	Plain	DA+9	00°00'00"		261.75		640040.00	3429385.01
				190		132KV T/Line Crossing (E.C=7.021mtr)		
207	Plain	DD+9	49°30'54" RT		261.33		639931.00	3429249.00
				340		1 NO CARTRACK		
208	Plain	DA+18			261.43		639588.00	3429247.00
				194		220KV D/C Gangowal-Gobindgarh G2 T/LINE (PSTCL)Xing(E.C=12.25m)		
209	Plain	DA+25			260.81		639396.00	3429241.00
				356				
210	Plain	DB+0	06° 41' 08" LT		261.27		639046.00	3429236.00
				302		1 NO CARTRACK		
211	Plain	DA+9			261.11		638745.00	3429204.00
				385		2 NO 11 KV LINE		
212	Plain	DA+0			261.00		638359.00	3429165.00
				380		1 NO LT LINE		
213	Plain	DA+3			260.65		638013.00	3429123.01
				380		1NO CARTRACK		
214	Plain	DA+3			260.47		637647.00	3429088.00
				380		1 NO CARTRACK		
215	Plain	DA+0			260.22		637239.00	3429045.00
				375				
216	Plain	DB+0	1° 48' 25" RT		259.90		636869.00	3429005.00
				380		1 NO ROAD		
217	Plain	DA+0			260.05		636486.00	3428970.00
				380				
218	Plain	DA+0			259.55		636098.00	3428935.00
				380		1 NO ROAD		
219	Plain	DA+0			259.08		635719.00	3428900.00
				380		2 NO CARTRACK		
220	Plain	DA+3			258.88		635371.00	3428866.01
				385		1 NO 11 KV 1 LT LNE CARTRACK		
221	Plain	DA+0			258.87		634988.00	3428828.01
				370		1 NO 11 KV & METEL ROAD		
222	Plain	DA+0			258.63		634615.00	3428793.00
				400		1 NO 11 KV & 1 NO LT LINE		
223	Plain	DA+6			258.67		634215.00	3428757.00
				393				
224	Plain	DB+0	14° 18' 26" RT		258.80		633834.00	3428728.01
				400		1 NO CARTRACK		
225	Plain	DA+3			257.91		633440.00	3428781.00
				399		2 NO LT LINE		
226	Plain	DB+3	8° 12' 31" LT		257.52		633044.00	3428833.01
				400		1 NO METEL ROAD		
227	Plain	DA+3			258.22		632646.00	3428830.00
				400		1NO LT LINE 1NO 11 KV LINE		
228	Plain	DB+6	14° 51' 51" RT		257.88		632248.00	3428828.00
				400		1 NO LT LINE		
229	Plain	DA+6			257.38		631868.00	3428937.01
				400		1 NO CARTRACK 2 NO 11 KV LINE		
230	Plain	DC+3	18° 53' 50" LT		257.38		631482.00	3429052.00
				400		1 NO LT 1 NO 11 KV LINE		
231	Plain	DB+3	7° 01' 40" LT		256.52		631082.00	3429038.00
				400		1 NO LT LINE		
232	Plain	DB+0	2° 36' 08" RT		256.13		630688.00	3428969.00
				400		ROAD 1 NO 11 KV LINE		
233	Plain	DA+3			255.88		630290.00	3428920.00
				400		1 NO LT & 1 NO 11 KV LINE		
234	Plain	DA+3			255.54		629893.00	3428872.00
				400		2 NO LT LINE 3NO CARTRACK		
235	Plain	DC+3	26° 30' 31" LT		255.10		629497.00	3428821.00
				400		2 NO 11KV & 1 NO LT LINE		
236	Plain	DD+3	35° 32' 16" RT		255.30		629169.00	3428588.00
				372		1 NO LT LINE CARTRACK		
237	Plain	DD+9	25° 31' 30" LT		254.50		628799.00	3428582.00
				486		SATLUJ RIVER CROSSING		

Annexure-I

**KOLDAM - LUDHIANA 400kV D/C TRANSMISSION LINE
FINAL TOWER SCHEDULE FROM KOLDAM TO LUDHIANA**

Note: * - The details mentioned in Remarks Column is Indicatively only. The bidder has to evaluate and consider additional details if required for BOQ/any Estimation.

Tower No.	Terrain	Type of Tower	Angle of Deviation	Span (M)	R.L	Remarks*	UTM Co-ordinates (Zone 43)	
							Easting	Northing
238	Plain	DB+9			254.80	Pile	628359.00	3428372.01
				500				
239	Plain	DB+9			256.07	Pile	627914.00	3428151.00
				500		CARTRACK LT LINE		
240	Plain	DB+9	9° 55' 24" RT		257.06		627465.00	3427929.00
				365				
241	Plain	DA+0			256.15		627098.00	3427818.01
				390		1NO 11 KV &MATEL ROAD		
242	Plain	DA+0			255.12		626738.00	3427706.01
				345		3 NO 11 KV 3 NO LT LINE CARTRACK		
243	Plain	DA+0			255.54		626409.00	3427603.01
				390		1 NO LT LINE		
244	Plain	DA+0			254.83		626031.00	3427488.00
				375		2 NO 11 KV ,CARTRACK		
245	Plain	DA+0			255.15		625675.00	3427376.00
				361		1 NO LT LINE		
246	Plain	DD+0	45° 55' 08" RT		253.29		625335.00	3427266.00
				200		LT LINE CARTRACK		
247	Plain	DB+9			253.39		625154.00	3427368.01
				210		220KV D/C RTPP-Lantokalan T/LINE (PSTCL)Xing(E.C=8.10m)		
248	Plain	DA+25			252.19		624979.00	3427472.01
				386				
249	Plain	DD+0	43° 13' 59" LT		252.69		624642.00	3427660.01
				316		LT LINE 11 KV LINE		
250	Plain	DA+0			252.28		624336.00	3427583.01
				340				
251	Plain	DA+0			252.29		624006.00	3427499.01
				350		2 NO LT LINE		
252	Plain	DA+0			251.79		623667.00	3427413.01
				395				
253	Plain	DB+0	13° 23' 59" RT		251.21		623271.00	3427311.00
				408		2 NO LT LINE 1 NO 11 KV LINE		
254	Plain	DA+6			252.23		622873.00	3427313.00
				392		2 NO LT 1NO 11KV ROAD		
255	Plain	DA+0			251.86		622485.00	3427306.01
				353				
256	Plain	DA+0			252.47		622131.00	3427304.00
				400		LT LINE ROAD		
257	Plain	DA+0			252.35		621729.00	3427299.00
				400		4NO LT LINE ROAD		
258	Plain	DA+3			252.14		621329.00	3427293.00
				400		LT LINE ROAD		
259	Plain	DA+0			252.31		620933.00	3427290.00
				392				
260	Plain	DA+6			250.73		620537.00	3427287.00
				399		LT LINE		
261	Plain	DB+0	5° 44' 14" RT		250.15		620138.00	3427290.00
				400		ROAD LT LINE		
262	Plain	DA+0			252.65		619745.00	3427329.00
				400		ROAD		
263	Plain	DB+6	4° 24' 14" LT		251.85		619345.00	3427357.00
				399		1 NO LT LINE ROAD		
264	Plain	DB+6	12° 45' 47" LT		253.61		618948.00	3427345.00
				408		3 NO LT LINE		
265	Plain	DB+3	10° 47' 47" RT		251.09		618553.00	3427250.01
				400		LT LINE		
266	Plain	DA+0			251.08		618153.00	3427243.01
				400		1 NO LT LINE ROAD		
267	Plain	DA+0			250.94		617753.00	3427238.01
				396		1 NO LT LINE ROAD		
268	Plain	DA+0			250.54		617358.00	3427233.00
				400		3 NO LT LINE		
269	Plain	DA+3			250.31		616957.00	3427238.00
				400		ROAD		
270	Plain	DA+3			249.98		616556.00	3427225.00
				397		2 NO LT LINE ROAD		
271	Plain	DCT+6			249.82	Transposition Tower	616155.00	3427217.00
				400				
272	Plain	DA+0			249.72		615758.00	3427208.00
				400		2 NO LT LINE		
273	Plain	DA+0			249.64		615358.00	3427205.00
				388		2 NO LT LINE ROAD		
274	Plain	DA+0			249.92		614972.00	3427191.01
				396		LT LINE TEL.LINE		
275	Plain	DA+0			248.84		614576.00	3427186.01
				330		LT LINE		
276	Plain	DA+3			248.75		614246.00	3427179.01
				385		LT LINE		
277	Plain	DB+0	3° 42' 02" LT		248.36		613861.00	3427173.01

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KOLDAM - LUDHIANA 400kV D/C TRANSMISSION LINE

FINAL TOWER SCHEDULE FROM KOLDAM TO LUDHIANA

Note: * - The details mentioned in Remarks Column is Indicatively only. The bidder has to evaluate and consider additional details if required for BOQ/any Estimation.

Tower No.	Terrain	Type of Tower	Angle of Deviation	Span (M)	R.L	Remarks*	UTM Co-ordinates (Zone 43)	
							Easting	Northing
				400		2NO LT LINE		
278	Plain	DA+3		409	248.83	LT LINE	613463.00	3427141.01
279	Plain	DA+3			248.90		613050.00	3427111.00
280	Plain	DB+0	12° 29' 55" LT	388	248.25	2 NO LT LINE ROAD	612663.00	3427081.00
281	Plain	DA+0		377	248.44	2 NO LT LINE	612315.00	3426972.00
282	Plain	DA+3		320	248.37	4 NO LT LINE 2 NO ROAD	612022.00	3426873.01
283	Plain	DA+0		306	248.47	LT LINE ROAD	611728.00	3426785.00
284	Plain	DA+3		393	248.29	LT LINE	611354.00	3426666.01
285	Plain	DC+0	28° 37' 22" LT	331	247.88	5 NO LT LINE ROAD	611038.00	3426568.01
286	Plain	DA+0		384	247.63	2 NO LT LINE ROAD	610771.00	3426292.01
287	Plain	DB+0		340	247.75		610528.00	3426045.00
				350		SH ,MACHHIWAD-RAHO ROAD XING 2 NO LT LINE		
288	Plain	DA+0			247.84		610292.00	3425795.01
289	Plain	DA+3		390	247.82	3 NO LT LINE ROAD	610020.00	3425519.00
				400		2 NO LT LINE ROAD		
290	Plain	DA+0		400	248.14	NALA ROAD	609743.00	3425230.00
291	Plain	DA+0			247.98		609470.00	3424947.00
292	Plain	DA+0		380	247.06		609197.00	3424666.00
293	Plain	DB+0	00° 00' 00"	380	248.35	ROAD LT LINE	608927.00	3424386.00
				400		2 NO ROAD 2NO LT LINE		
294	Plain	DA+3			247.47		608649.00	3424099.00
				400		ROAD 2 NO LT LINE		
295	Plain	DA+3			247.52		608371.00	3423813.00
				400		LT LINE		
296	Plain	DA+0			246.43		608093.00	3423527.00
				400		NALA ROAD		
297	Plain	DA+6			247.36		607814.00	3423239.00
				400		ROAD LT LINE		
298	Plain	DA+0			247.14		607544.00	3422954.00
				370		3NO LT LINE		
299	Plain	DA+3			247.02		607293.00	3422686.01
				371		ROAD LT LINE		
300	Plain	DC+0	16° 37' 44" RT		246.76		607035.00	3422419.01
				351		2NO ROAD LT LINE		
301	Plain	DA+0			246.11		606730.00	3422245.01
				394		CARTRACK		
302	Plain	DA+3			246.11		606388.00	3422049.01
				385		2 NO ROAD NALA LT LINE		
303	Plain	DA+0			245.93		606054.00	3421858.01
				355		2 NO LT LINE		
304	Plain	DA+0			245.73		605746.00	3421682.01
				375				
305	Plain	DA+0			245.53		605429.00	3421500.00
				378		LT LINE NALA		
306	Plain	DA+3			246.08		605092.00	3421309.01
				399		ROAD CARTARCK		
307	Plain	DA+0			245.75		604746.00	3421111.01
				352		ROAD		
308	Plain	DB+0	6° 3' 51" LT		245.69		604407.00	3420910.00
				368		ROAD		
309	Plain	DA+0			245.75		604142.00	3420720.01
				368		2 NO ROAD LT LINE		
310	Plain	DA+0			245.47		603844.00	3420504.01
				360		CARTRACK CANAL		
311	Plain	DA+3			246.16		603552.00	3420293.01
				376		2 CARTRACK, LT LINE		
312	Plain	DA+0			245.99		603248.00	3420072.01
				336		LT LINE		
313	Plain	DA+0			245.92		602976.00	3419875.01
				335		3 NOLT LINE 66 KV LINE		
314	Plain	DA+3			245.80		602705.00	3419679.01
				388		ROAD 1NO LT LINE NALA		
315	Plain	DA+6			250.58		602375.00	3419438.00
				383		2 NOLT LINE CARTRACK		
316	Plain	DA+0			252.19		602080.00	3419226.01
				383		ROAD LT LINE		

Annexure-I

KOLDAM - LUDHIANA 400KV D/C TRANSMISSION LINE

FINAL TOWER SCHEDULE FROM KOLDAM TO LUDHIANA

Note: * - The details mentioned in Remarks Column is Indicatively only. The bidder has to evaluate and consider additional details if required for BOQ/any Estimation.

Tower No.	Terrain	Type of Tower	Angle of Deviation	Span (M)	R.L	Remarks*	UTM Co-ordinates (Zone 43)	
							Easting	Northing
317	Plain	DA+0			252.17		601770.00	3419002.01
318	Plain	DA+3		383	252.03	2 NO LT & 1 NO 11 KV LINE	601460.00	3418777.01
319	Plain	DB+0	09° 12' 00" LT	370	251.88	cartrack & pump house	601162.00	3418557.00
320	Plain	DD+25	36° 10' 24" LT	180	252.30	CAR TRACK	601039.00	3418428.00
321	Plain	DD+9	56° 10' 12" RT	362	252.58	220KV D/C RTPP-Sahnewal ckt 1&Gausgarh Ckt-2 T/LINE (PSTCL)Xing(E.C=6.5m)	600808.00	3418146.00
322	Plain	DD+0	34° 49' 48" LT	440	252.64	ROAD, 11 KV LINES	600372.00	3418147.01
323	Plain	DB+3	2° 21' 15" LT	327	252.25	LT LINE	600110.00	3417919.00
324	Plain	DD+18		362	253.41	66 KV LINE CROSSING PSEB	599809.00	3417728.00
325	Plain	DA+0		400	253.45	CAR TRACK AND LT LINE	599498.00	3417498.01
326	Plain	DA+0		370	253.90	2 NO. 11 KV LINE AND ROAD	599199.00	3417279.01
327	Plain	DA+3		380	253.12	LT LINE AND 11 KV LINE	598893.00	3417054.01
328	Plain	DD+0	50° 44' 25" LT	400	253.21	11 KV LINE	598577.00	3416820.01
329	Plain	DB+0		314	252.92		598559.00	3416506.01
330	Plain	DD+25		331	252.77	S.H ROAD CROSSING	598577.00	3416203.00
331	Plain	DC+9	23° 40' 20" RT	208	252.81	220KV D/C RTPP-Kuhadack 1&Gausgarh Ckt-2 T/LINE (PSTCL)Xing(E.C=9.25m)	598533.00	3415988.00
332	Plain	DA+0		415	253.15	11 KV LINE	598318.00	3415629.01
333	Plain	DA+6		400	253.06		598111.00	3415300.00
334	Plain	DC+0	25° 28' 10" LT	390	255.18	3 NO. OF 11 KV LINE	597902.00	3414957.01
335	Plain	DC+6	22° 14' 35" LT	250	255.00	N.H 95 Chandigarh-Ludhiana Road Xing(G.C=16.6m),	597871.00	3414716.00
336	Plain	DD+18	12° 00' 14" LT	286	252.75		597775.00	3414436.00
337	Plain	DB+0	14° 38' 30" LT	334	249.85	132 KV D/C Jamalpur-Gulal T/LINE (PSTCL)Xing(E.C=8.61m)	597694.00	3414112.00
338	Plain	DA+6		390	250.10	LT LINE	597707.00	3413691.01
339	Plain	DA+3		390	249.86	CAR TRACK ROAD, LT LINE	597717.00	3413339.00
340	Plain	DD+6	31° 59' 24" LT	410	253.00	2 NO. 11 KV LINE	597727.00	3412929.00
341	Plain	DD+9	27° 21' 22" LT	391	254.20	1 NO. 11 KV LINE AND LT LINE	597500.00	3412609.01
342	Plain	DD+9	26° 13' 40" RT	174	250.60	Railway Xing (G.C=22.5m) (Morinda-Sahnewal Rly Track)	597521.00	3412438.00
343	Plain	DA+3		398	251.10	11 KV AND LT LINE	597372.00	3412077.01
344	Plain	DA+0		370	249.73		597234.00	3411736.01
345	Plain	DA+3		400	249.56	LT LINE	597086.00	3411367.01
346	Plain	DA+6		382	250.63	11 KV AND LT LINE AND ROAD	596945.00	3411010.01
347	Plain	DD+3	32° 37' 38" RT	420	249.50	ROAD AND LT LINE	596788.00	3410619.01
348	Plain	DD+3	23° 31' 3" LT	317	251.52	2 NO. LT LINE	596550.00	3410405.01
349	Plain	DD+3	26° 34' 3" LT	159	251.32	Railway Xing (G.C=22.5 m) (Delhi-Amritsar Rly Track)	596471.00	3410273.01
350	Plain	DD+9	31° 57' 38" LT	319	249.73	5 NO. LT LINE	596262.00	3410033.01
351	Plain	DD+9	32° 14' 45" RT	340	249.56	66 KV LINE	596221.00	3409700.01
352	Plain	DD+6	15° 14' 32" LT	250	250.63	NH-1 Delhi-Amritsar Road Xing (G.C) AND 11 KV LINE	596094.00	3409479.01

Annexure-I

KOLDAM - LUDHIANA 400kV D/C TRANSMISSION LINE

FINAL TOWER SCHEDULE FROM KOLDAM TO LUDHIANA

Note: * - The details mentioned in Remarks Column is Indicatively only. The bidder has to evaluate and consider additional details if required for BOQ/any Estimation.

Tower No.	Terrain	Type of Tower	Angle of Deviation	Span (M)	R.L	Remarks*	UTM Co-ordinates (Zone 43)	
							Easting	Northing
				318		11 KV AND LT LINE		
353	Plain	DA+0		362	250.62	2 NO. LT LINE	596014.00	3409169.01
354	Plain	DA+0		345	250.53	66 KV AND 11 KV LINE	595925.00	3408813.01
355	Plain	DC+3	21° 32' 55" RT	395	251.52	2 NO. CT ROAD AND LT LINE	595833.00	3408480.01
356	Plain	DD+3	57° 05' 27" RT	310	250.32		595589.00	3408165.01
357	Plain	DA+3		400	250.45	LT LINE 11 KV	595332.00	3408186.00
358	Plain	DA+3		400	250.42	2 NO 11 KV LINE	594938.00	3408232.00
359	Plain	DA+3		400	249.40	ROAD	594537.00	3408274.00
360	Plain	DD+25	1° 14' 32" LT	200	250.53	220KV D/C Doraha-sahnewal T/LINE (PSTCL)Xing(E.C=8.0m)	594142.00	3408328.01
361	Plain	DA+25		300	250.40		593912.00	3408342.00
362	Plain	DB+0	1° 54' 42" RT	300	250.45		593649.00	3408373.00
363	Plain	DA+0		400	249.80	11 KV & LT LINE	593345.00	3408418.01
364	Plain	DA+3		400	250.76		592950.00	3408466.01
365	Plain	DA+0		400	250.82		592562.00	3408525.01
366	Plain	DA+0		400	250.69	11 KV LINE	592169.00	3408575.01
367	Plain	DC+6	20° 14' 32" RT	400	249.14	66 KV LINE CROSSING PSEB	591766.00	3408634.01
368	Plain	DB+9	12° 47' 15" LT	384	250.12	3 NO11 KV LINE,ROAD	591411.00	3408824.00
369	Plain	DD+3	34° 15' 09" RT	112	249.85		591051.00	3408954.01
370	Plain	DD+0	44° 39' 14" RT	300	249.85	11 KV LINE	590938.00	3408933.01
371	Plain	DA+3		398	249.89	66 KV LINE CROSSING PSEB	590693.00	3409090.01
372	Plain	DD+3	31° 02' 23" LT	400	249.30	11 KV LINE	590357.00	3409305.01
373	Plain	DB+3	3° 02' 06" RT	400	248.50	11 KV LINE	589956.00	3409306.01
374	Plain	DA+0		400	249.89	CAR TRACK LT LINE	589554.00	3409323.01
375	Plain	DA+3		400	251.99	2 NO11 KV LINE	589157.00	3409339.01
376	Plain	DA+0		400	250.89	11 KV LINE	588762.00	3409361.01
377	Plain	DA+3		400	250.75	11 KV LINE	588360.00	3409380.01
378	Plain	DD+0	36° 07' 07" LT	256	250.38	S-H ROPAR-LUDHIANA ROAD XING	587958.00	3409395.01
379	Plain	DA+3		397	250.60	2 NO LT LINE	587748.00	3409250.01
380	Plain	DD+0	35° 37' 14" RT	379	250.88	11 KV LINE	587417.00	3409029.01
381	Plain	DA+0		379	250.41	LT LINE	587039.00	3409061.00
382	Plain	DC+0	17° 02' 03" LT	400	250.71	ROAD 11 KV LINE	586662.00	3409089.00
383	Plain	DA+6		400	251.40	ROAD 11 KV LINE	586270.00	3409002.01
384	Plain	DA+0		400	251.30	CAR TRACK LT LINE& CANAL	585880.00	3408913.01
385	Plain	DA+3		400	251.19	2 NO LT LINE	585493.00	3408826.00
386	Plain	DC+0	24° 31' 27" RT	243	251.20	CAR TRACK LT LINE	585101.00	3408734.01
387	Plain	DA+18		180	248.60	220 KV D/C Sagrur-Jamalpur T/Line (BBMB) Xing (E.C=9.50M)	584863.00	3408786.01
388	Plain	DA+18		400	249.80	LT LINE	584680.00	3408825.00
389	Plain	DD+0	30° 9' 50" LT	300	250.40	2 NO 11 KV LT LINE	584296.00	3408902.01
390	Plain	DA+0		315	250.04	LT LINE	584012.00	3408808.01
391	Plain	DB+0	3° 55' 23" LT		250.18		583715.00	3408709.01

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KOLDAM - LUDHIANA 400kV D/C TRANSMISSION LINE

FINAL TOWER SCHEDULE FROM KOLDAM TO LUDHIANA

Note: * - The details mentioned in Remarks Column is Indicatively only. The bidder has to evaluate and consider additional details if required for BOQ/any Estimation.

Tower No.	Terrain	Type of Tower	Angle of Deviation	Span (M)	R.L	Remarks*	UTM Co-ordinates (Zone 43)	
							Easting	Northing
				351		11 KV 2 LT LINE		
392	Plain	DA+6			250.19		583388.00	3408576.01
				374		S-H Ludhiana-Marelkotia Road Xing.		
393	Plain	DC+0	22° 3' 45" RT		249.78		583039.00	3408437.00
				140		11 KV LT LINE		
394	Plain	DC+6	18° 39' 30" RT		249.81		582910.00	3408388.00
				254		ROAD,11 KV LINE		
395	Plain	DB+0	7° 30' 14" LT		249.77		582651.00	3408404.01
				291		11 KV LT LINE		
396	Plain	DB+0	6° 56' 50" LT		249.29		582396.00	3408435.00
				293		2 NO 11 KV 3 LT LINE ROAD		
397	Plain	DB+9	10° 53' 25" RT		249.36		582072.00	3408429.01
				302		LT LINE		
398	Plain	DA+3			249.24		581775.00	3408489.01
				309		CAR TRACK		
399	Plain	DA+0			249.60		581471.00	3408545.01
				311		2 NO 11KV 2 NO LT LINE		
400	Plain	DB+0	7° 33' 50" LT		248.19		581163.00	3408600.01
				397		CANAL CARTRACK LT LINE		
401	Plain	DA+0			247.96		580766.00	3408621.01
				353		LT LINE		
402	Plain	DA+0			247.47		580417.00	3408640.01
				384		11 KV LINE		
403	Plain	DD+3	19° 30' 41" RT		247.80		580033.00	3408661.01
				240		Railway Xing (G.C=20.5 m) (Hissar-Ludhiana Rly Track)		
404	Plain	DD+6	21° 28' 41" LT		247.76		579796.00	3408722.00
				407		LT LINE		
405	Plain	DB+0	8° 2' 50" RT		247.70		579404.00	3408761.01
				338		CARTRACK 2 LT LINE		
406	Plain	DA+0			247.44		579077.00	3408818.01
				340		LT CARTRACK		
407	Plain	DB+0	6° 14' 53" LT		246.98		578731.00	3408868.00
				400		ROAD 11 KV LINE		
408	Plain	DA+3			246.83		578337.00	3408900.00
				364		11 KV LINE		
409	Plain	DB+0	1° 02' 06" RT		246.10		577971.00	3408939.00
				368		CAR TRACK 2 LT LINE		
410	Plain	DA+0			246.63		577605.00	3408958.00
				375		ROAD		
411	Plain	DA+0			246.31		577228.00	3408982.00
				394		11 KV LINE		
412	Plain	DA+3			246.44		576837.00	3409001.00
				370		4 NO LT LINE		
413	Plain	DA+3			246.12		576469.00	3409023.00
				377		11 KV & LT LINE ROAD		
414	Plain	DC+0	23° 23' 3" RT		245.51		576094.00	3409041.00
				322		11 KV & LT LINE		
415	Plain	DA+0			245.56		575805.00	3409187.00
				340				
416	Plain	DD+0	31° 49' 48" RT		245.20		575502.00	3409341.00
				280				
417	Plain	DD+9	44° 56' 33" RT		245.85		575363.00	3409571.00
				127		220KV D/C Sahnewal-Laitokalan T/LINE (PSTCL)Xing(E.C=74.0m)		
418	Plain	DD+18			245.10		575412.00	3409689.00
				160		TL LINE		
419	Plain	DC+9	09° 6' 41" LT		244.94		575332.00	3409826.00
				390		LT 11 KV LINE		
420	Plain	DD+6	13° 40' 55" LT		246.13		575039.00	3410074.00
				90				
	Plain	GANTRY	00° 00' 00" LT		245.48		574968.00	3410127.01