

APPENDIX – A

General Information & Implementation Schedule for Jabalpur Transmission Company Limited (JTCL) has been awarded for implementation of “Supply and installation of 48 Fiber OPGW” for 765 kV S/C Jabalpur Bina Transmission Line and 765 kV D/C Jabalpur Dharamjaygarh Transmission Lines and Installation of 4 Nos. STM 16 FOTE and 2 Nos. Repeater Station approved as Communication Scheme in the 38th meeting of NCT held on 25.02.2026 and clarification as per Minutes of the 40th Meeting of (NCT) held on 15.04.2026.

Sag Tension:

CHARACTERISTICS OF WIRES	CONDUCTOR	GROUND WIRE
NAME	ACSR ZEBRA	OPGW
STRANDS IN ALUMINIUM ..	54/3.18	-
STRANDS IN STEEL	7/3.18	-
DIAMETER CM	2.862	1.230
SECTIONAL AREA CM ²	4.845	0.817
UNIT WEIGHT KG/M	1.621	0.539**
MODULUS OF ELASTICITY . KG/CM ²	7.03400e+005	1.38700e+006
COEFF. OF LINEAR EXPN.. PER DG	1.93000e-005	1.40000e-005
ULTIMATE STRENGTH KG	13289.0	6526.0

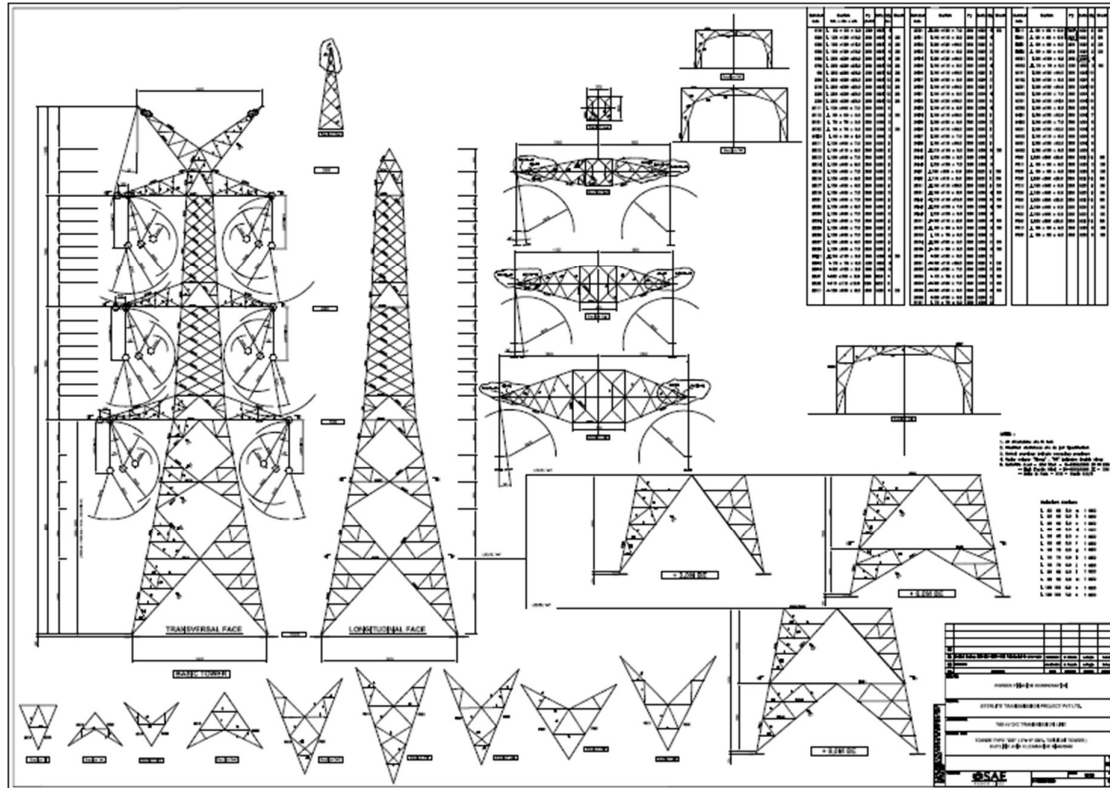
WIND PRESSURE DETAILS	CONDUCTOR	GROUND WIRE
WIND ACTING PERPENDICULAR TO THE LINE		
FULL WIND PRESSURE KG/M ²	142.00	175.50
EXPOSURE FACTOR	1.00	1.00

CONDUCTOR							
SR NO	WIND FACT	WIND PRES	TEMP [°C]	SAG [M]	TENSION [KG]	FOS AVAIL	FOS REQD
1	0.000	0.00	0.0	9.668	3353.2	3.963	
2	0.360	51.12	0.0		4196.2	3.167	1.429
3	0.000	0.00	32.0	11.089	2923.6*	4.545	4.545
4	1.000	142.00	32.0		6436.8	2.065	1.429
5	0.750	106.50	32.0		5360.9	2.479	1.429
6	0.000	0.00	85.0	13.263	2444.4	5.436	

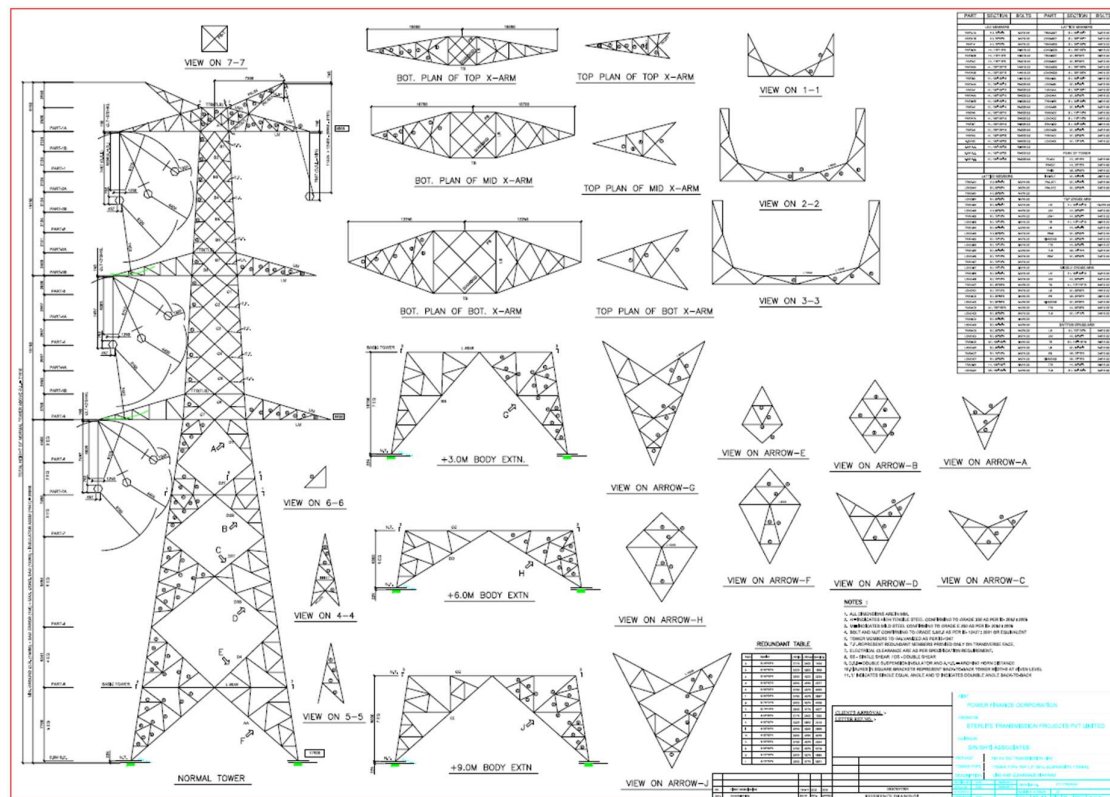
GROUND WIRE							
GW MADE PARALLEL AT CONDITION 1 [PARALLEL FACTOR FOR GW = 0.900]							
SR NO	WIND FACT	WIND PRES	TEMP [°C]	SAG [M]	TENSION [KG]	FOS AVAIL	FOS REQD
1	0.000	0.00	0.0	8.701*	1238.9	5.268	
2	0.360	63.18	0.0		1828.8	3.568	1.429
3	0.000	0.00	32.0	9.769	1103.5	5.914	5.000
4	1.000	175.50	32.0		3126.4	2.087	1.429
5	0.750	131.63	32.0		2587.1	2.523	1.429
6	0.000	0.00	53.0	10.452	1031.4	6.327	

NOTE : * INDICATES STARTING CONDITION.
 ** INCLUSIVE OF +10% ADDITIONAL SELF WEIGHT

TOWER TYPE: DA

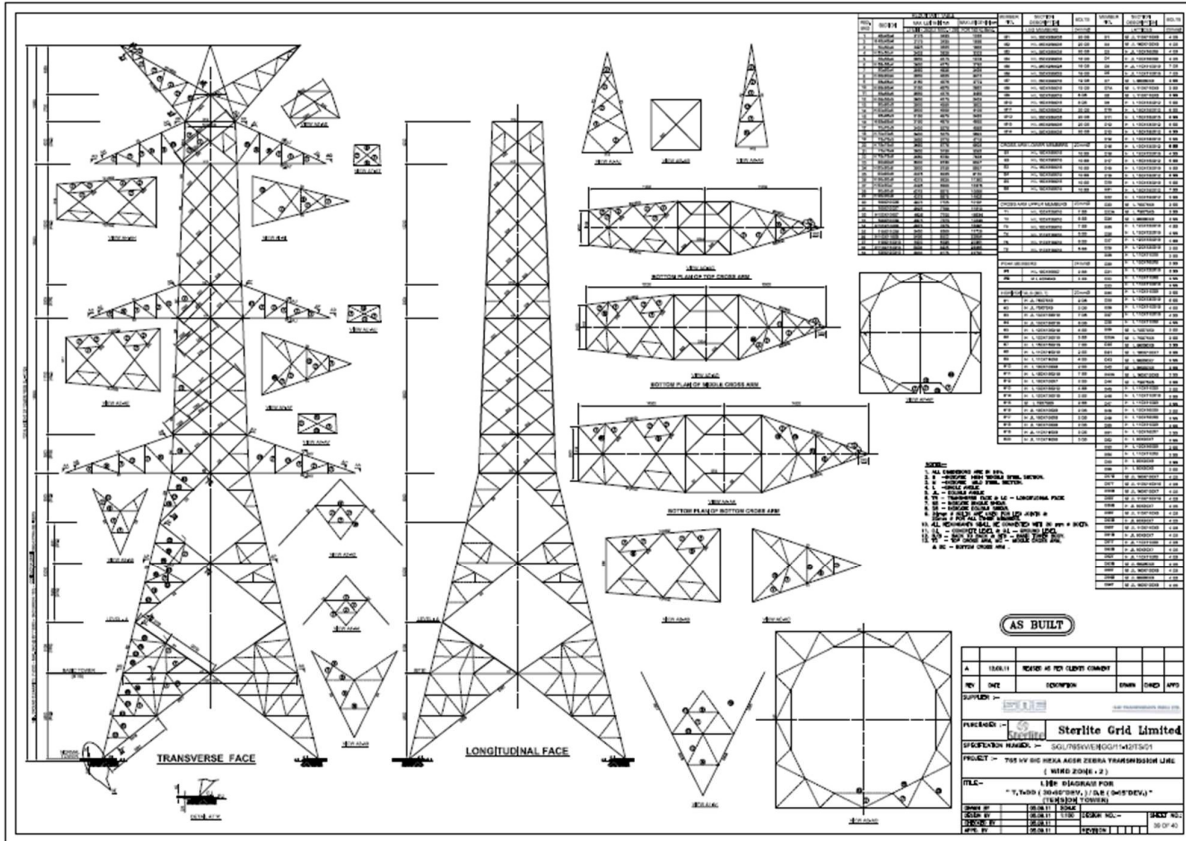


TOWER TYPE: DB



[illegible][illegible]

TOWER TYPE: DD



TOWER TYPE: DD+18 & 30 M EXTENSION

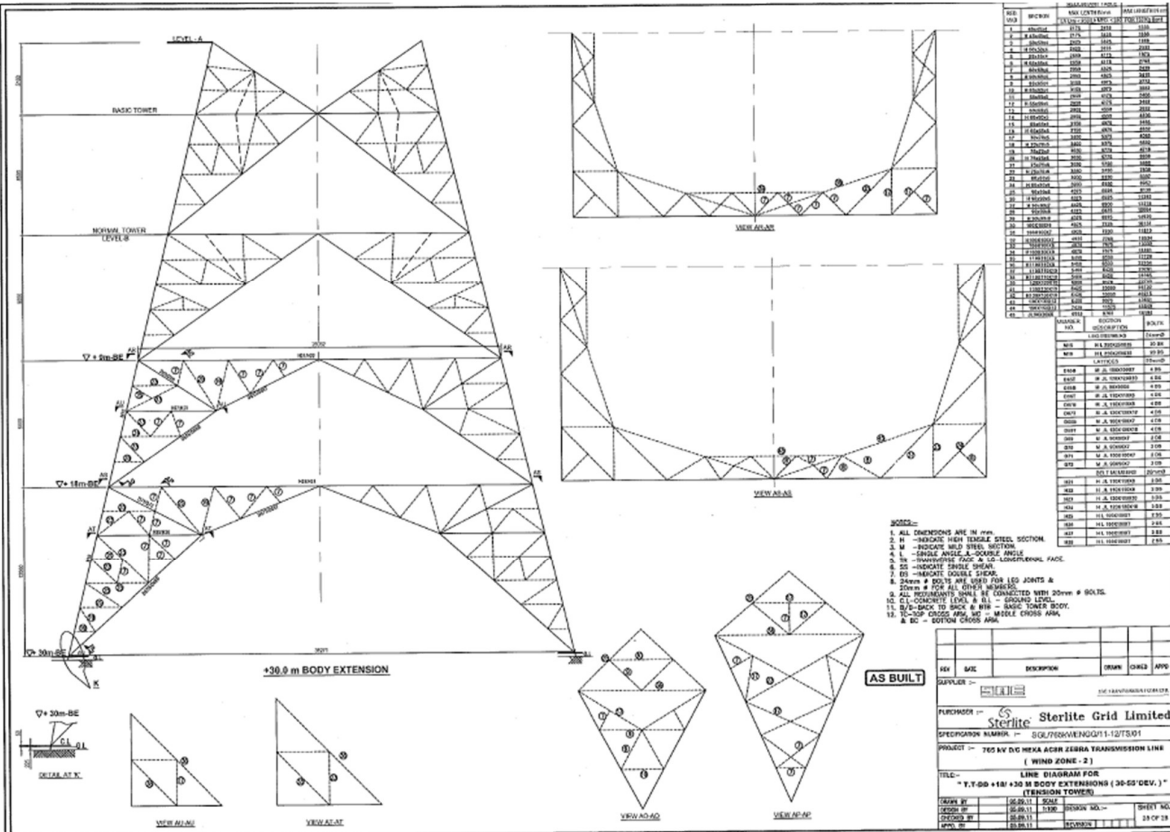


Table A: Implementation Schedule

Line Description	Period in Months from Award
Supply and installation of OPGW (48F) along with required accessories, approach cables, required Fiber Optic Terminal Equipment (FOTE) and required amplifiers/optical interfaces/repeater stations etc. for commissioning of optical fibre links on ISTS. Laying of 48F OPGW 614.75 kms for both lines and Installation of 4 Nos. STM 16 FOTE and 2 Nos. Repeater Station .	S

Table B
Proposed OPGW Communication
link Works

Name of Transmission Line	Originating Location	Terminating Location	Line Length (KM)
765 kV S/C Jabalpur-Bina	Jabalpur Substation	Bina substation	379.64
765 kV D/C Jabalpur - Dharamjaygarh	Jabalpur Substation	Dharamjaygarh substation	235.11

Total -**614.75.00 kms** (approx.)

Addition/deletion of links within the provisions of contractual quantity variation may be undertaken during detailed engineering, based on approval received in Regional Power Committee (NRPC)/ NCT meetings.

Location of Communication Equipment(s) will be finalized during detailed engine