

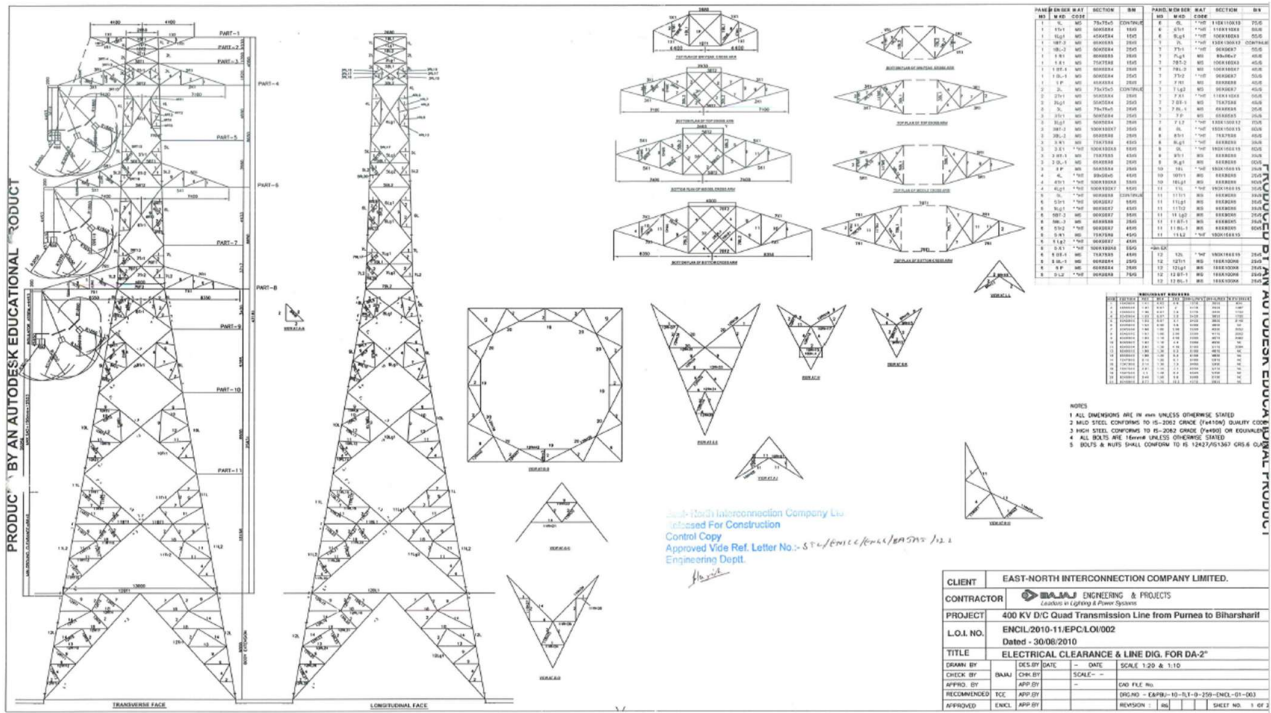
APPENDIX – A

General Information & Implementation Schedule for East North Interconnection Company Limited (ENICL) has been awarded for implementation of “Supply or installation of 48 Fiber OPGW” for 400 kV D/C Bongaigaon -Alipurduar- Siliguri Transmission Line approved as Communication Scheme in the 38th meeting of NCT held on 25.02.2026.

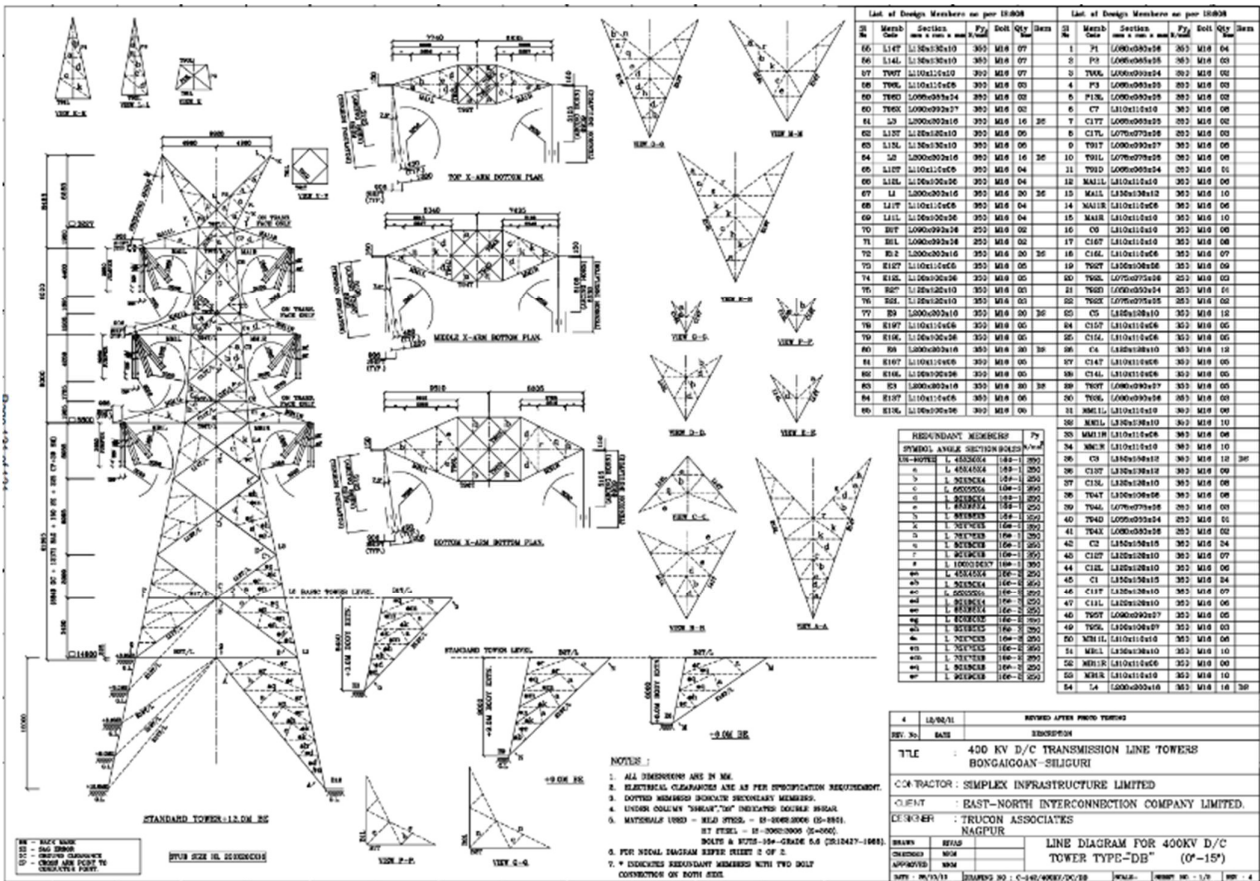
Sag Tension:

PROJECT : 400 KV D/C TRANSMISSION LINE								
CLIENT : ENICL								
WIRE : EARTHWIRE (OPGW)								
<u>SAG TENSION CALCULATION</u>								
	NAME OF THE CONDUCTOR :			OPGW		<u>Earthwire</u> <u>OPGW</u>		
	AREA :	mm ²		226.2				
	DIA :	mm		20				
	WT :	Kg/m		0.831				
	ULTIMATE TENSILE STRENGTH :	Kg		10240				
	MODULUS OF ELASTICITY :	Kg/mm ²		7600				
	MAX WORKING SPAN :	m		400				
	MIN TEMPERATURE :	°C		0				
	EVERY DAY TEMPERATURE :	°C		32				
	MAX TEMPERATURE :	°C		53				
	COEFF OF LINEAR EXPANSION :	/°C		1.94E-05				
	INITIAL F.O.S OR SAG (m)							
	TYPE 'F' FOR FOS :			F				
		FOS		5.000				
		SAG						
	INITIAL TEMP :	°C		32				
	INITIAL WIND PRESSURE :	Kg/m ²		0				
	RADIAL ICE FORMATION :	mm		0				
INI 100% 75% 36%	WIND PRESS (Kg/m ²)	TEMP DEG (°C)	ICE FORMATION (mm)	SAG (m)	STRESS (Kg/cm ²)	TENSION (Kg)	F.O.S	SPAN (m)
	0	32	0	8.115	905.39	2048	20.0	400
	198.0	32	0	-	2554.89	5779	56.4	400
	148.5	32	0	-	2135.85	4831	47.2	400
	71.3	0	0	-	1598.57	3616	35.3	400
	0	0	0	6.655	1104.03	2497	24.4	400
	0	53	0	9.090	808.28	1828	17.9	400

TOWER TYPE: DA

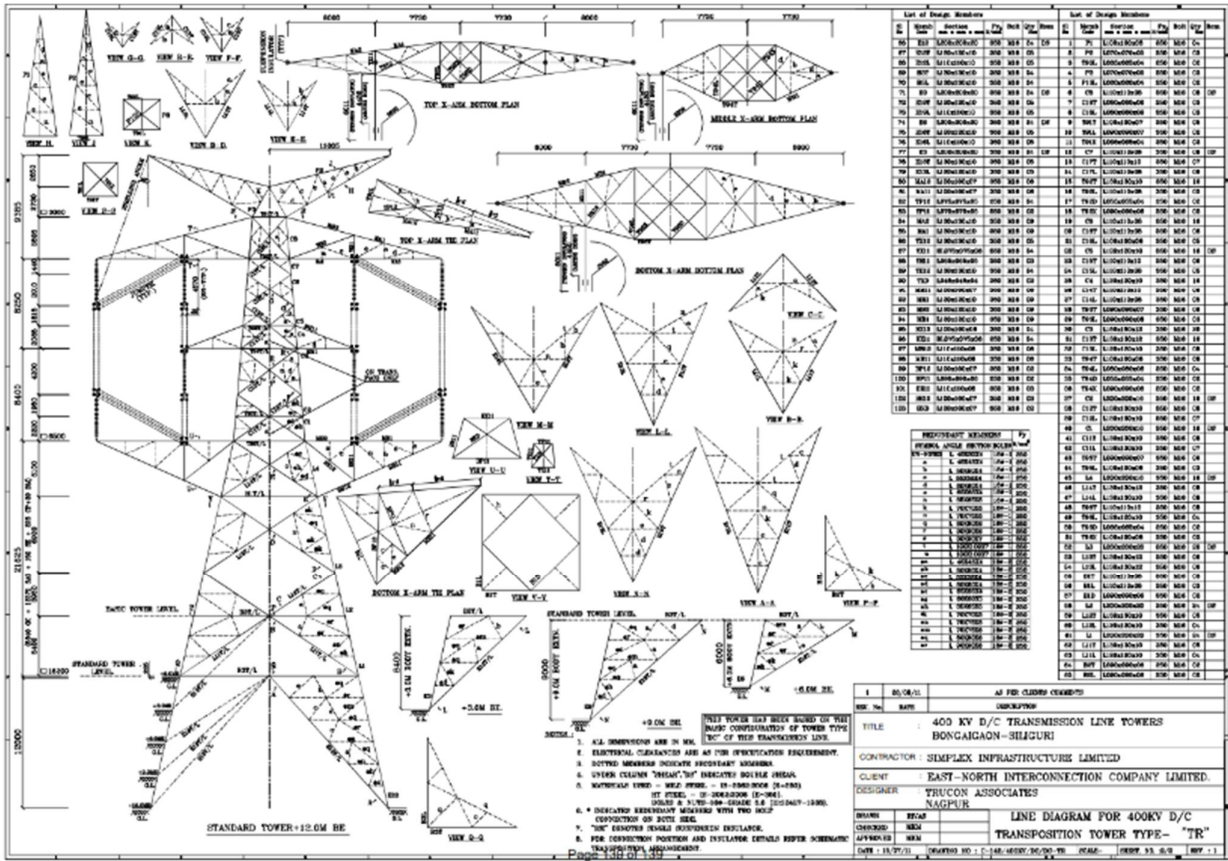


TOWER TYPE: DB

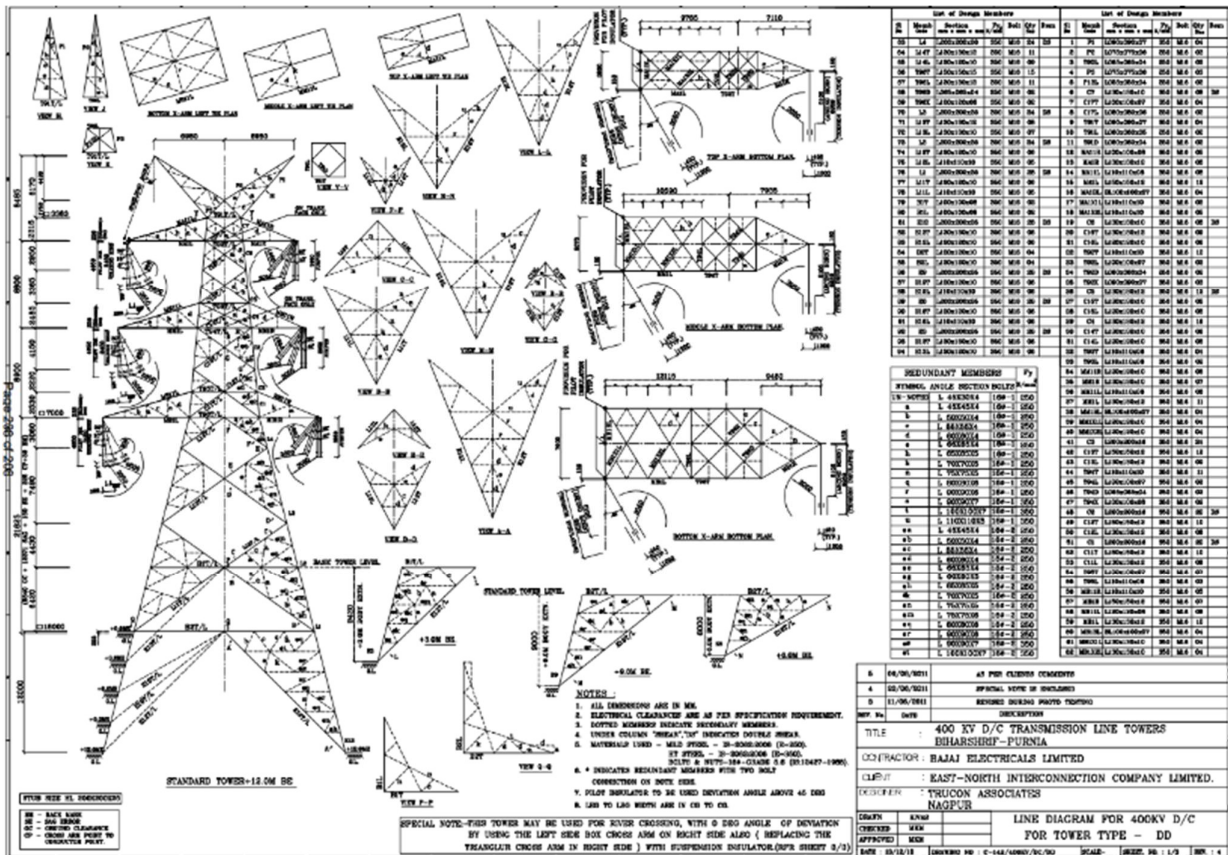


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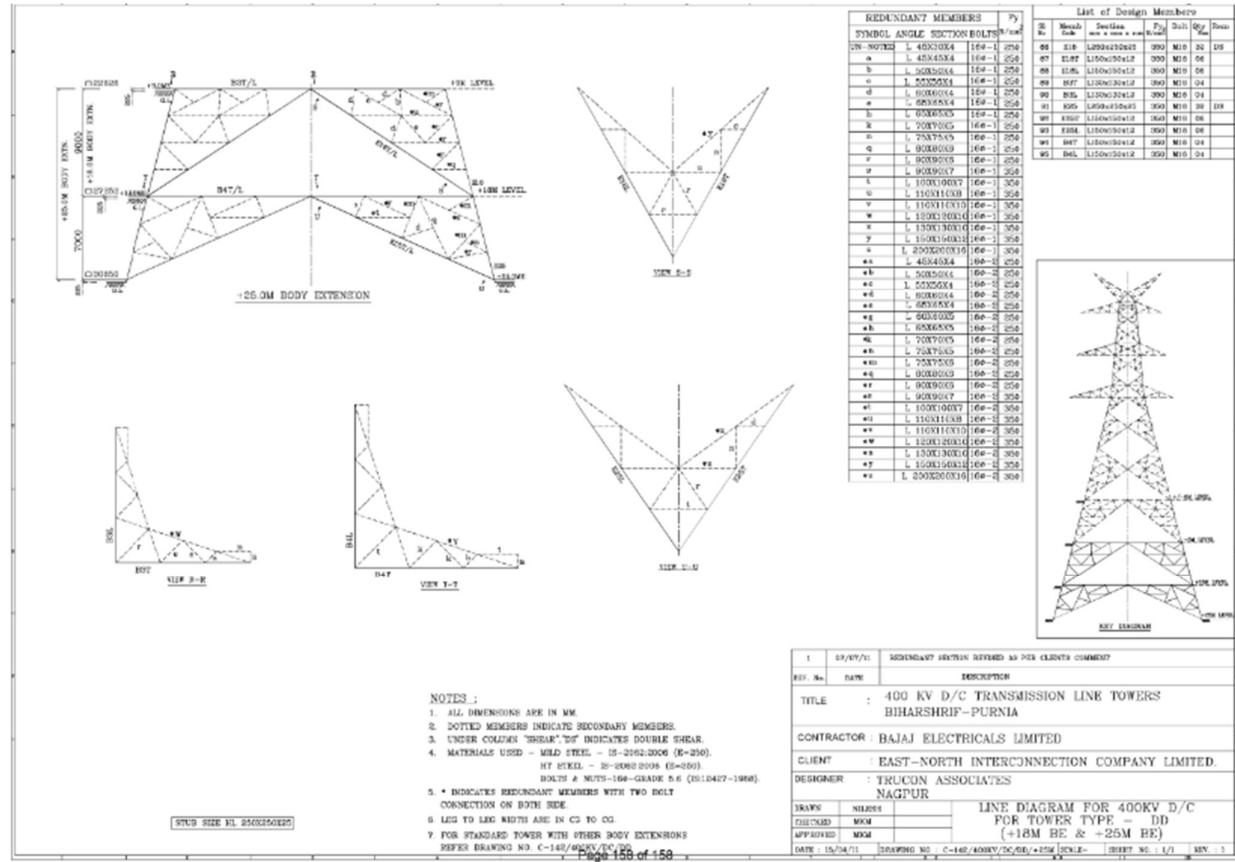
TOWER TYPE: TP



TOWER TYPE: DD



TOWER TYPE: DD +18 M & 25 M



TOWER TYPE: DD+30 M

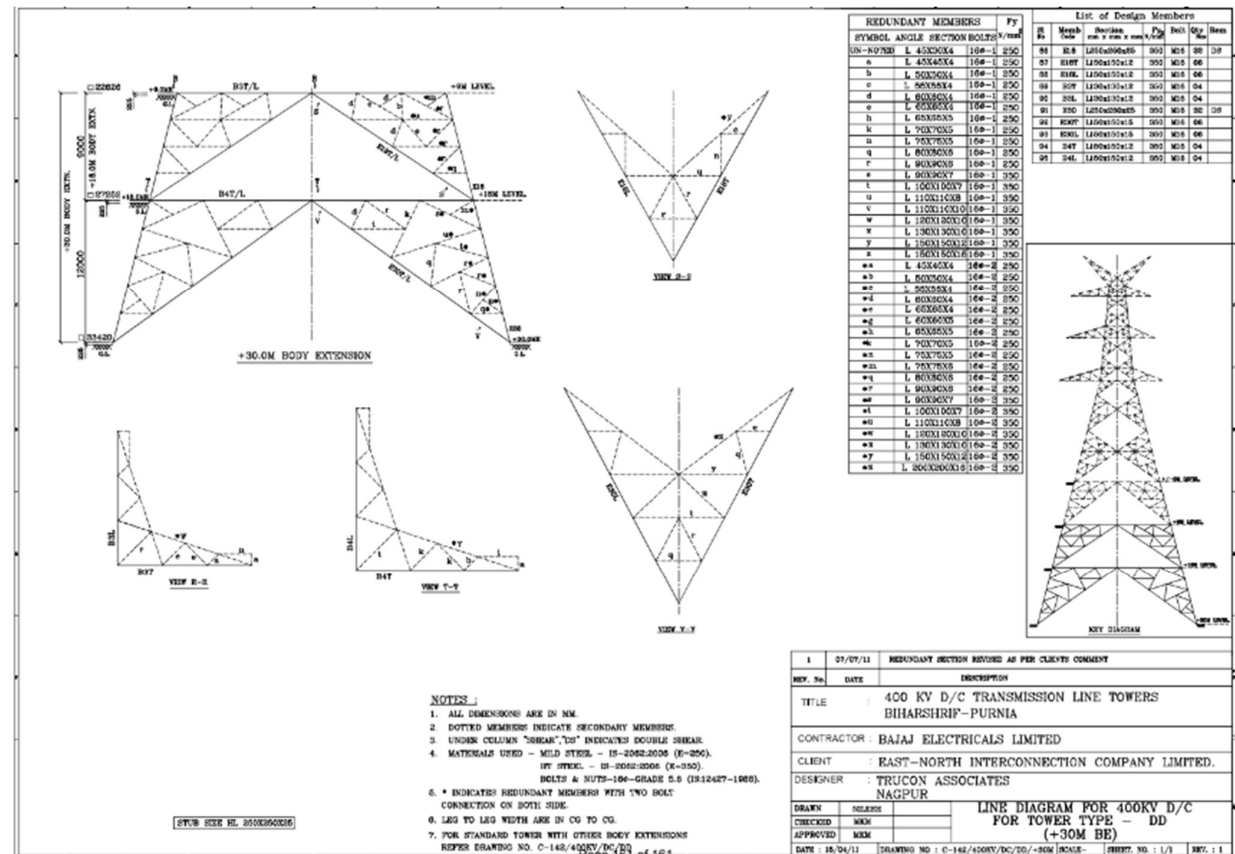


Table A: Implementation Schedule

Line Description	Period in Months from Award
Supply and Installation of one (1) OPGW cable containing 48 fibers (48F) by replacing one (1) existing earth wire under live-line condition.	

Table B
Proposed OPGW Communication
link Works

Name of Transmission Line	Originating Location	Terminating Location	Line Length (KM)
Bongaigaon S/s to Siliguri S/s	Bongaigaon	Siliguri Ss	218.78 kms

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 engineering.