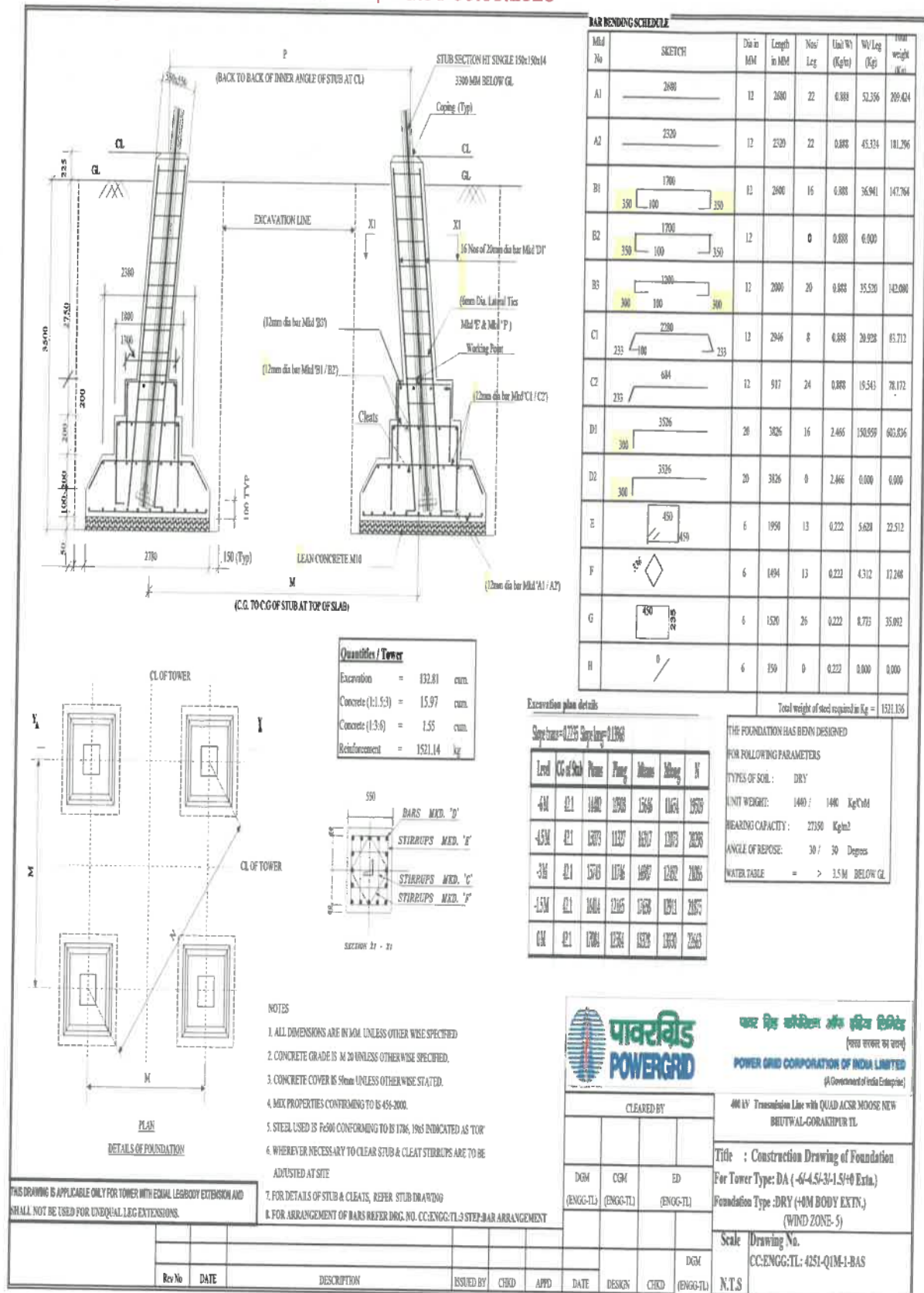


Note No. #1

Attachment:Annexure-IV.pdf

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BAR BENDING SCHEDULE

Mid No	SKETCH	Dist in MM	Length in MM	Nos/ Leg	Unit Wt (kg/m)	Wt/Leg (kg)	Total weight (kg)
A1	4690	12	4690	36	0.888	149.330	599.720
A2	3650	12	3650	36	0.888	116.603	466.732
B1	2100	12	3000	20	0.888	55.280	213.120
B2	2100	12	0	0	0.888	0.000	
B3	1200	12	2000	20	0.888	35.520	142.800
C1	4250	12	4056	20	0.888	83.019	332.076
C2	1689	12	1922	32	0.888	54.616	218.464
D1	3526	20	3626	16	2.466	150.859	603.836
D2	3526	20	3626	0	2.466	0.000	0.000
E	450	6	1950	13	0.222	5.628	22.512
F	450	6	1579	13	0.222	3.954	15.816
G	450	6	1520	26	0.222	8.713	35.092
H	0	6	150	0	0.222	0.000	0.000

Total weight of steel required in Kg = 2969.448

THE FOUNDATION HAS BEEN DESIGNED FOR FOLLOWING PARAMETERS

TYPES OF SOIL : FS

UNIT WEIGHT : 1440 / 940 Kg/Cum

BEARING CAPACITY : 13075 Kgf/m²

ANGLE OF REPOSE : 30 / 15 Degree

WATER TABLE : = 0.00 TO 0.75 M FROM CL

Excavation plan details

Super Size = 1275 Super Layer = 11200

Level	CG of Slab	Plan	Plan	Plan	Plan	N
-4M	0.1	11402	11402	11402	11402	11402
-4.5M	0.1	11402	11402	11402	11402	11402
-5M	0.1	11402	11402	11402	11402	11402
-5.5M	0.1	11402	11402	11402	11402	11402
-6M	0.1	11402	11402	11402	11402	11402

QUANTITIES / TOWER

Excavation = 362.71 cum.

Concrete (1:1.5:3) = 34.87 cum.

Concrete (1:3:6) = 4.59 cum.

Reinforcement = 2669.45 kg

PLAN

DETAILS OF FOUNDATION

SECTION X-X

NOTES

1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE SPECIFIED.
2. CONCRETE GRADE IS M 20 UNLESS OTHERWISE SPECIFIED.
3. CONCRETE COVER IS 50mm UNLESS OTHERWISE STATED.
4. MIX PROPERTIES CONFORMING TO IS 456-2000.
5. STEEL USED IS F-500 CONFORMING TO IS 1786. 19% INDICATED AS TOR.
6. WHEREVER NECESSARY TO CLEAR STUB & CLEAT STIRRUPS ARE TO BE ADJUSTED AT SITE.
7. FOR DETAILS OF STUB & CLEATS, REFER STUB DRAWING.
8. FOR ARRANGEMENT OF BARS REFER DRG. NO. CC-ENGGL-3 STEP-BAR ARRANGEMENT.

POWERGRID

पावरग्रिड

POWER GRID CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)

400 KV Transmission Line with QUAD ACSR MOOSE NEW

BHUTWAL-GORAKHPUR TL

Title : Construction Drawing of Foundation

For Tower Type: DA (-4/4.5/-3/-1.5/+0 Extra)

Foundation Type: FS (4M BODY EXTN.)

(WIND ZONE-5)

Scale

Drawing No.

CC-ENGGL-4251-QIM-S-BAS

N.T.S

Rev No

DATE

DESCRIPTION

ISSUED BY

CHKD

APD

DATE

DESIGN

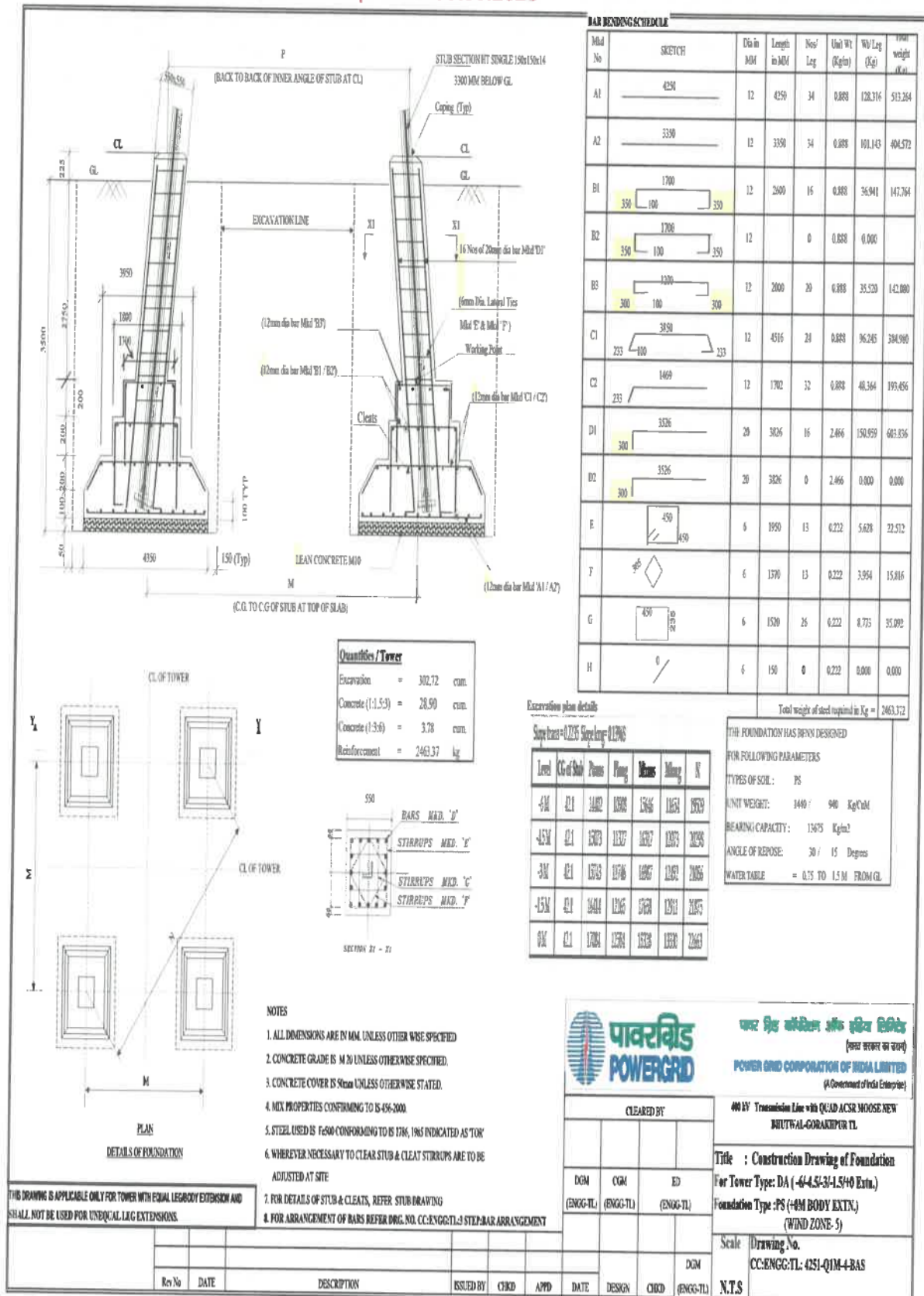
CHKD

ENGGL

Note No. #1

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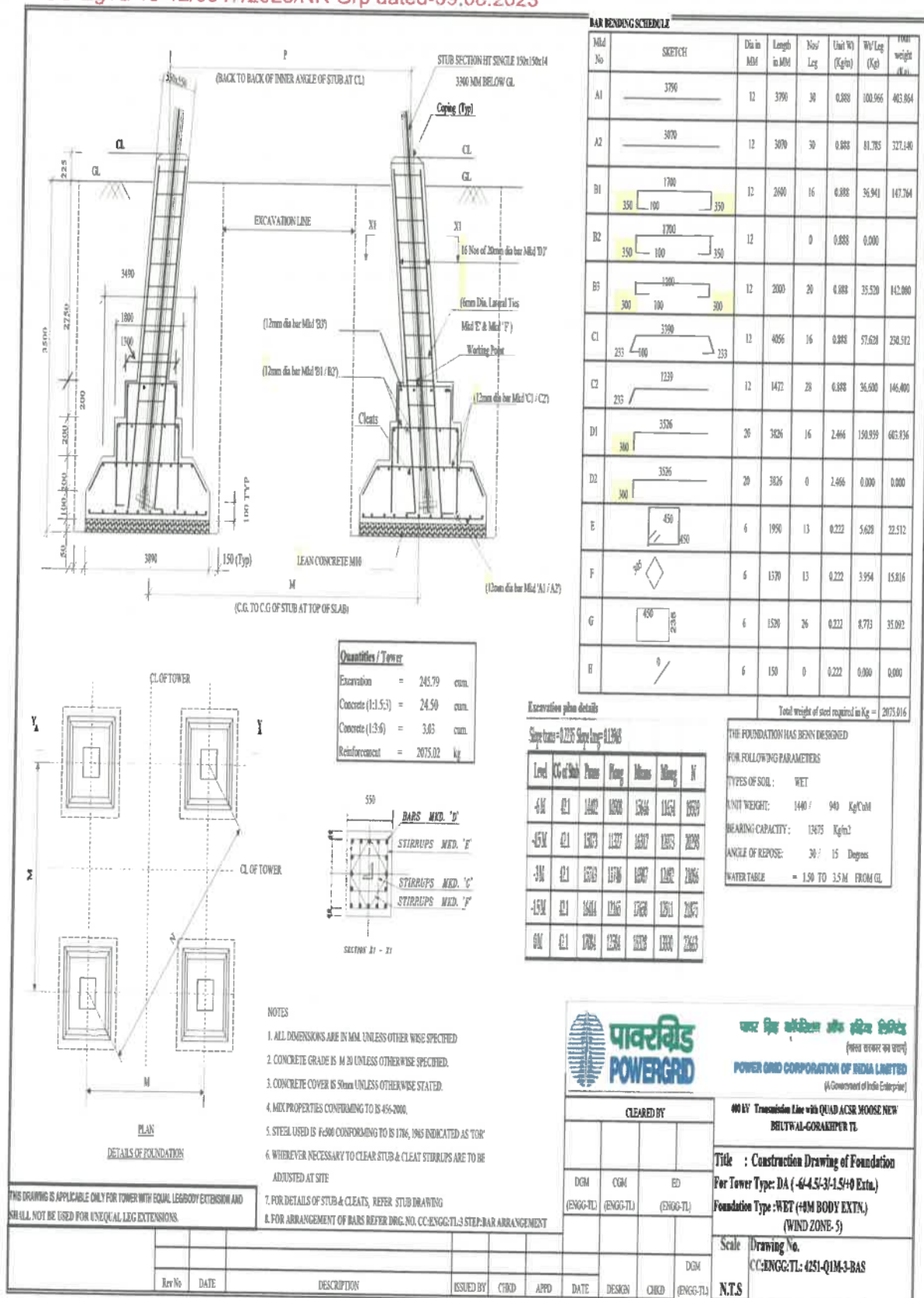
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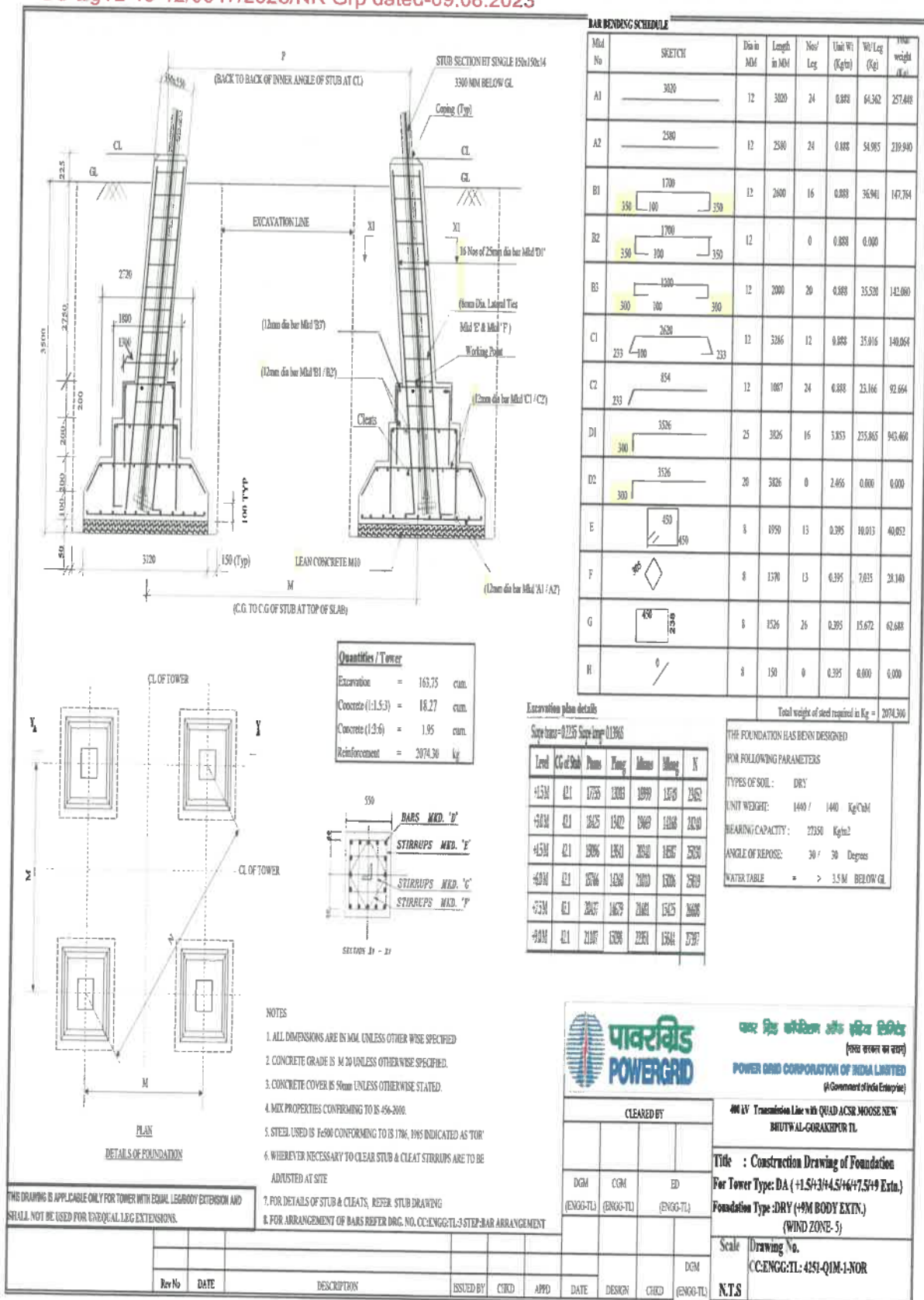
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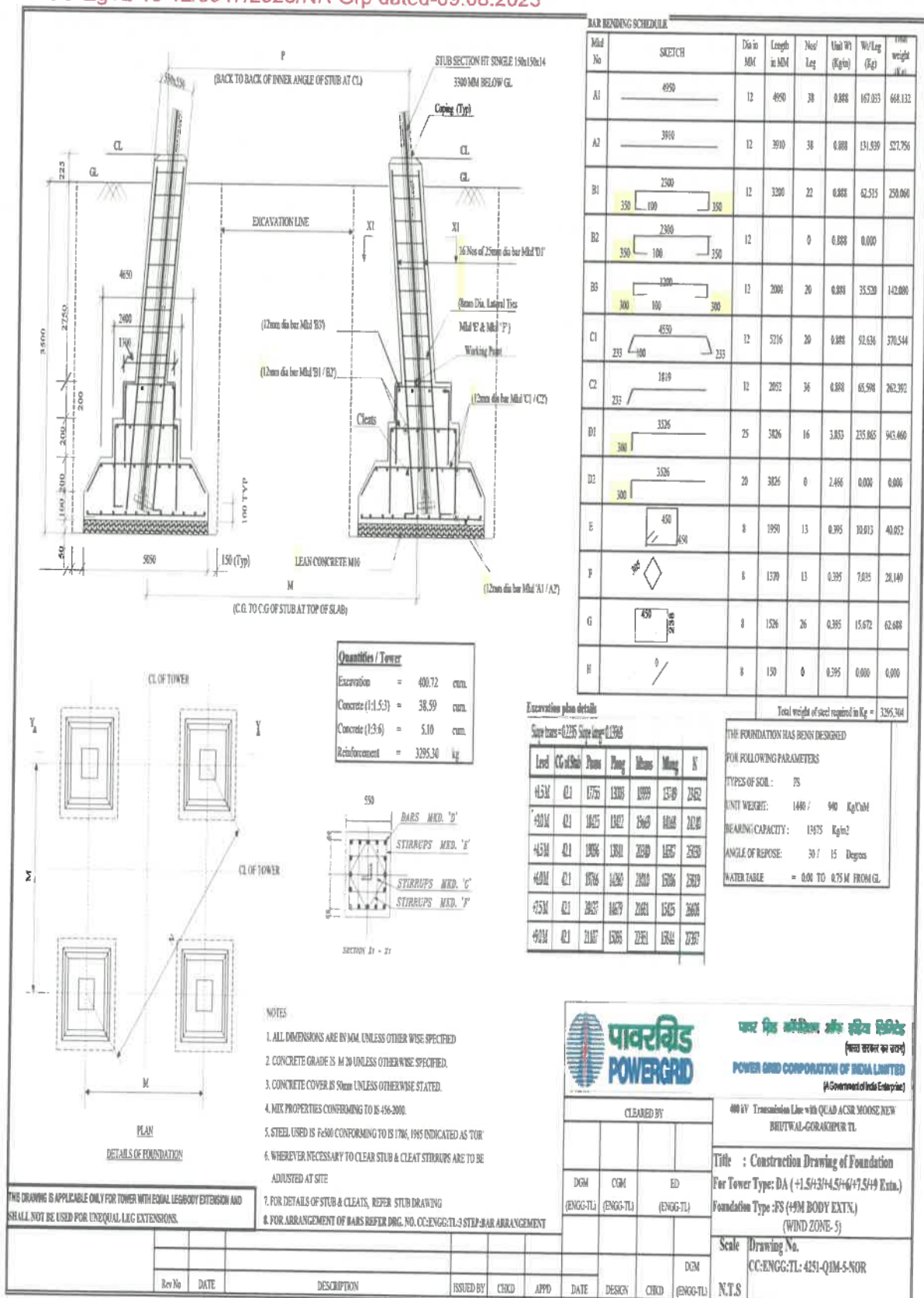
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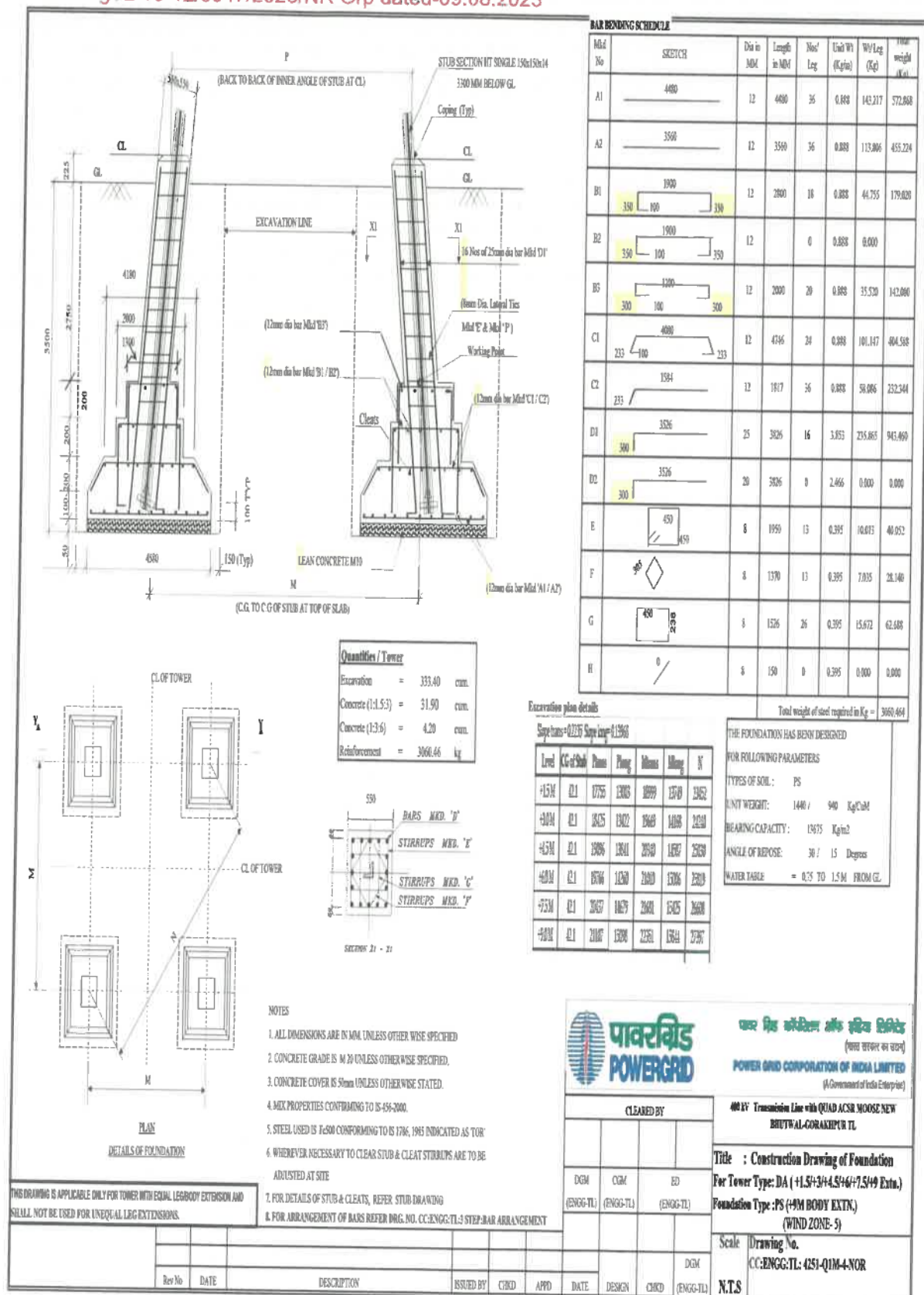
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BAR BENDING SCHEDULE

Mid No	SKETCH	Dia in MM	Length in MM	No/Leg	Unit Wt (Kg/m)	Wt/Leg (Kg)	Total weight (Kg)
A1	4030	12	4030	32	0.888	114.516	438.064
A2	3290	12	3290	32	0.888	91.489	371.956
B1	1800 350 100 350	12	2700	18	0.888	43.157	172.428
B2	1800 350 100 350	12	0	0	0.888	0.000	0.000
B3	1200 300 100 300	12	2000	20	0.888	35.520	142.080
C1	3620 235 100 235	12	4286	20	0.883	76.297	305.188
C2	1359 235	12	1582	32	0.888	45.238	180.952
D1	3526 300	25	3826	16	3.853	235.865	945.460
D2	3526 300	20	3826	0	2.466	0.000	0.000
E	450 450	8	1950	13	0.395	10.815	40.852
F	450 450	8	1370	13	0.395	7.035	28.140
G	450 450	8	1526	26	0.395	15.672	62.648
H	0	8	150	0	0.395	0.000	0.000

Total weight of steel required in Kg = 2707.208

Excavation plan details
Slope ratio = 0.225 Slope angle = 11.966°

Level	CG of slab	Depth	Plan	Min	Max	K
-1.5M	Q1	1.755	1300	1079	1549	2162
+0.0M	Q1	1.825	1302	1080	1550	2162
+1.5M	Q1	1.906	1304	1083	1553	2162
+3.0M	Q1	1.956	1280	1060	1536	2162
+4.5M	Q1	2.027	1267	1048	1525	2162
+6.0M	Q1	2.100	1258	1039	1514	2162

THE FOUNDATION HAS BEEN DESIGNED FOR FOLLOWING PARAMETERS

TYPES OF SOIL: WET

UNIT WEIGHT: 1440 / 940 Kg/cum

BEARING CAPACITY: 13675 Kg/m²

ANGLE OF REPOSE: 30 / 15 Degree

WATER TABLE = 1.50 TO 3.5M FROM GL

NOTES

- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE SPECIFIED.
- CONCRETE GRADE IS M 20 UNLESS OTHERWISE SPECIFIED.
- CONCRETE COVER IS 50mm UNLESS OTHERWISE STATED.
- MAX PROPERTIES CONFORMING TO IS 456-2000.
- STEEL USED IS R-500 CONFORMING TO IS 1786, 1915 INDICATED AS TOR.
- WHEREVER NECESSARY TO CLEAR STUB & CLEAT STIRRUPS ARE TO BE ADJUSTED AT SITE.
- FOR DETAILS OF STUB & CLEATS, REFER STUB DRAWING.
- FOR ARRANGEMENT OF BARS REFER DRG. NO. CC-ENG-02-12 STEP-BAR ARRANGEMENT.

DETAILS OF FOUNDATION

THIS DRAWING IS APPLICABLE ONLY FOR TOWER WITH EQUAL LEG BODY EXTENSION AND SHALL NOT BE USED FOR UNEQUAL LEG EXTENSIONS.

PAVERVID POWERGRID

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

CLEARED BY: 400 KV Transmission Line with QUAD ACSR MOOSE/NEW BHUTWAL-GORAKHPUR TL

Title: Construction Drawing of Foundation
For Tower Type: DA (+1.5/+3/+4.5/+6/+7.5/+9 Extn.)
Foundation Type: WET (+9M BODY EXTN.)
(WIND ZONE-5)

Scale: Drawing No. CC-ENG-02-12-1-NOR

N.T.S.

