



NATIONAL POWER CORPORATION

SUPPLEMENTAL / BID BULLETIN NO. 1
to the Bid Documents for the:

SUPPLY AND DELIVERY OF LINE HARDWARES FOR MASBATE 69KV T/L & S/S
UNDER PR NO. S1-MS624-017 / PB240611-CM00284

05 JUNE 2024

All prospective bidders and authorized copy holders of the Bid Documents of the above - mentioned project are hereby advised of the change and additional information in the Bid Documents, to wit:

A. BID SUBMISSION / OPENING DATE:

FROM	TO
11 JUNE 2024 Kaňao Room 9:30 A.M.	<u>13 JUNE 2024</u> <u>Kaňao Room</u> <u>9:30 A.M.</u>

B. ADDITIONAL INFORMATION FOR ITEM NO. 2 (CONDUCTOR, ACSR 336.4):

1,000 meters per reel

C. DETAILED DRILLING GUIDE/HOLES AND DRAWING FOR ITEM NOS. 3,4,5, & 6 (CROSSARM, STEEL):

Please see attached "Annex A"

D. DETAILED SPECIFICATIONS FOR ITEM NO. 8 (INSULATOR, POST, HORIZONTAL):

Please see attached "Annex B"

E. HOLE GUIDE AND DETAILED SPECIFICATIONS FOR ITEM NOS. 10 & 11 (POLE, STEEL):

Please see attached "Annex C"

All other terms and conditions shall remain the same.

For the information and guidance of all authorized copy holders of the Bid Documents and prospective bidders.

For the Bids and Awards Committee:

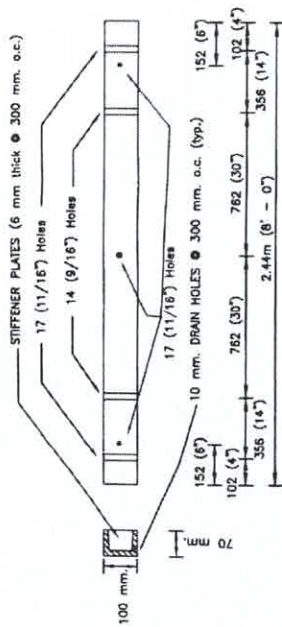
ATTY. MELCHOR P. RIDULME
Senior Vice President & COO, and
Chairman, Bids and Awards Committee



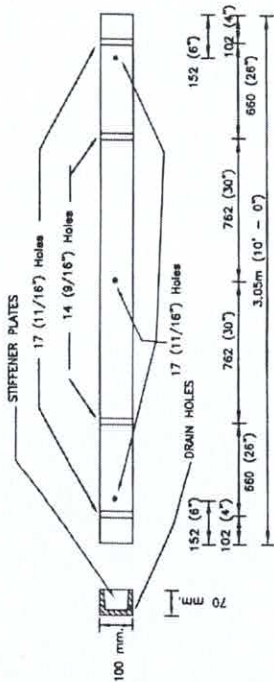
NATIONAL POWER CORPORATION
Gabriel Y. Itchon Building
Senator Miriam P. Defensor-Santiago Avenue (formerly BIR Road)
corner Quezon Avenue, Diliman, Quezon City 1100, Philippines
Tel. Nos. (632) 8921-3541 to 80 • Fax No. (632) 8921-2468
Website: www.napocor.gov.ph



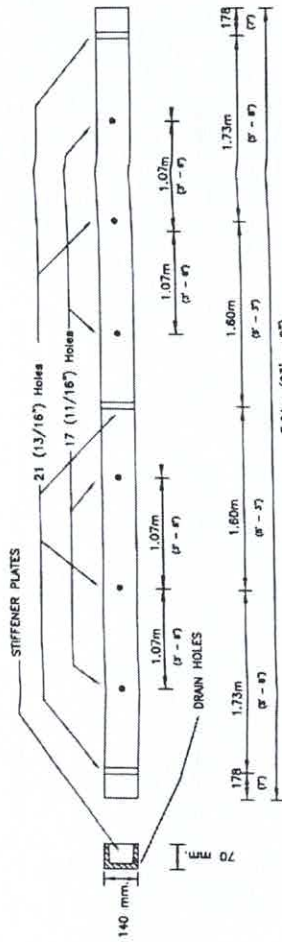
Annex A



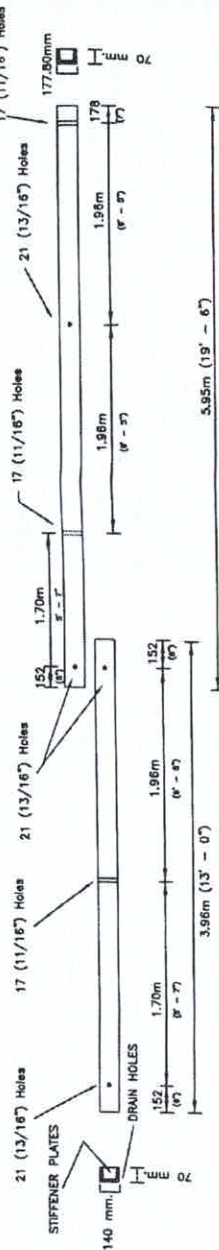
FOR TYPE B AND E



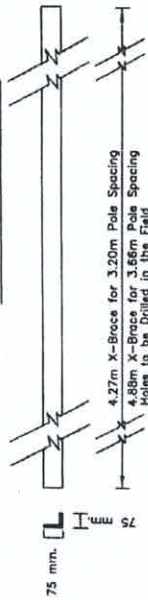
FOR TYPE B AND E



TYPE "HT" AND "HT"- "HT"

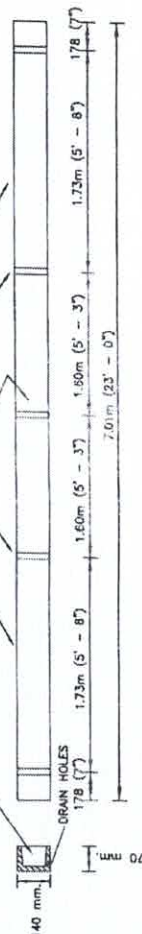


TYPE "3T" AND "3T"- "3T"



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
2. SUPPLY OF CROSSARMS AND X-BRACES ARE DRILLED, CUT TO EXACT DIMENSIONS
3. PROVIDE 6 MM. THK. STIFFENER PLATES FULLY WELDED TO CROSSARMS @ 300 mm. O.C.
4. PROVIDE 10 mm. DIAMETER DRAIN HOLE AT THE BOTTOM FLANGE OF CROSSARMS AT 300 mm. O.C. AS SHOWN ON THIS DRAWING.



TYPE "HS" AND "HS"- "HS"



NATIONAL POWER CORPORATION
 AGHAM ROAD, DILIMAN, QUEZON CITY

PROJECT: SUPPLY & ERECTION/INSTALLATION OF TAP - USON
 69KV TRANSMISSION LINE PROJECT

LOCATION: USOH, MASBATE

TITLE: 69KV TRANSMISSION LINE STEEL POLE CROSSARM DRILLING GUIDE

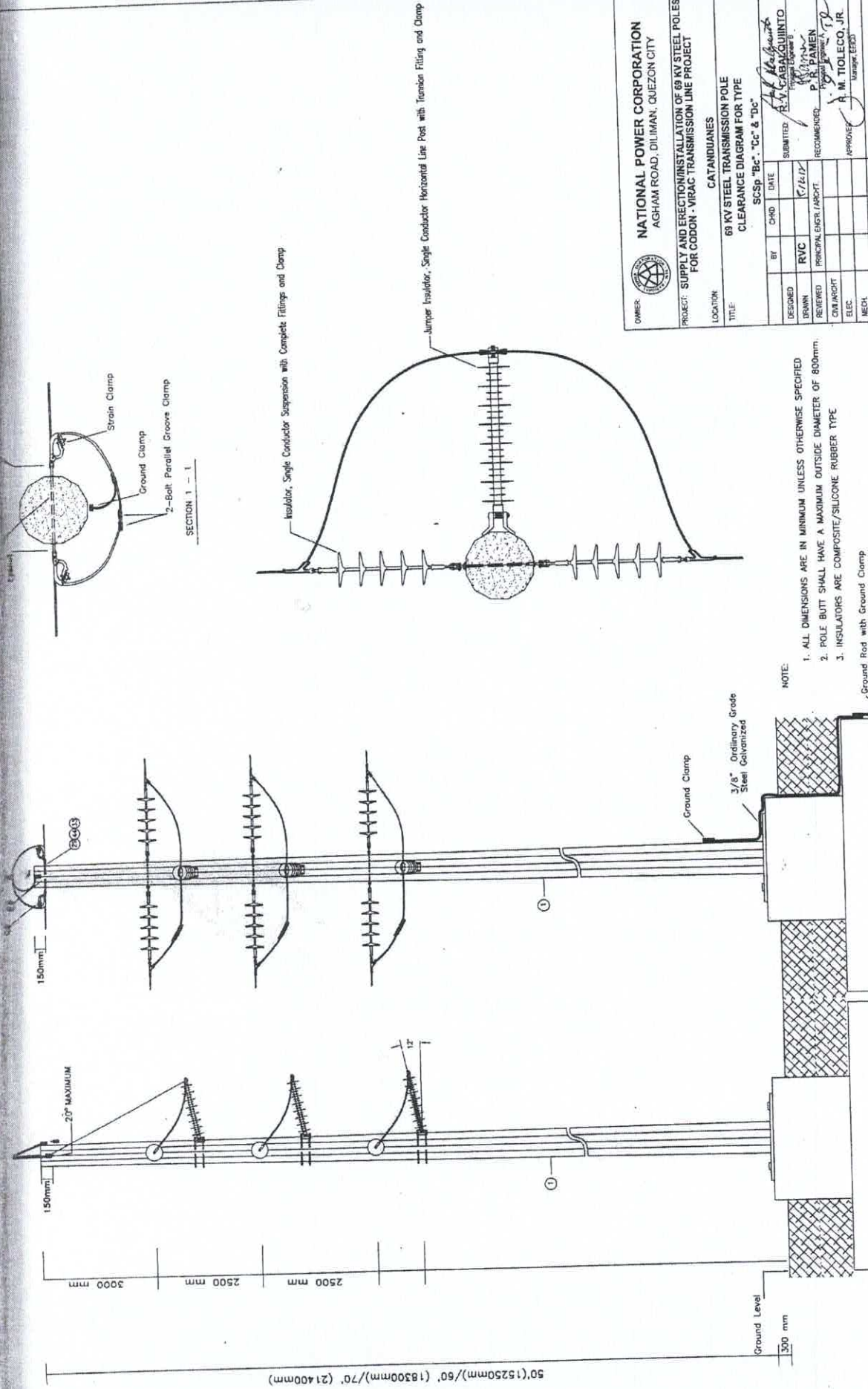
DESIGNED	BY	CHKD	DATE
DRAWN			
REVIEWED			
CALCULATED			
ELEC.			
MECH.			

RECOMMENDED	APPROVED

DWG. NO.	SCALE	NTS	REFERENCE DRAWING	REV.
TU-BDE-04.008				0

REV.	DATE	NATURE OF REVISION	BY	CHKD.	RECD.	APPD.

Annex B



150mm

20° MAXIMUM

300 mm

Ground Level

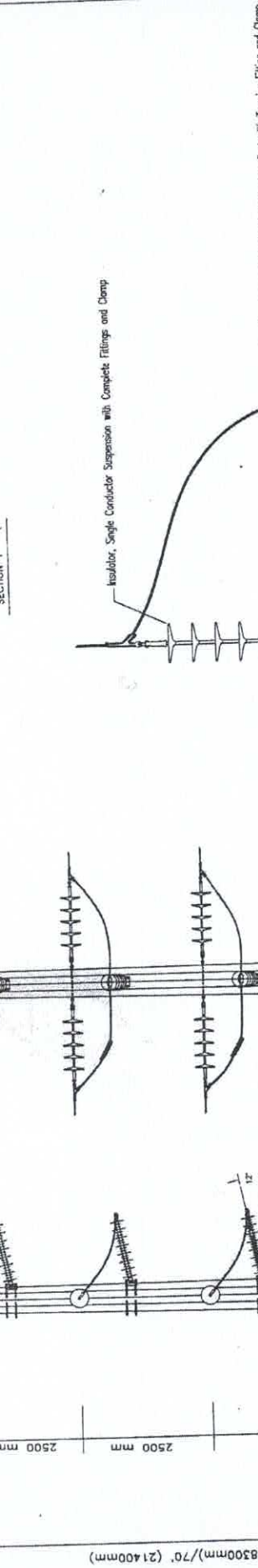
2" DIA

2-Belt Parallel Groove Clamp

Strain Clamp

Ground Clamp

SECTION 1 - 1



Jumper Insulator, Single Conductor Horizontal Line Post with Tension Fitting and Clamp

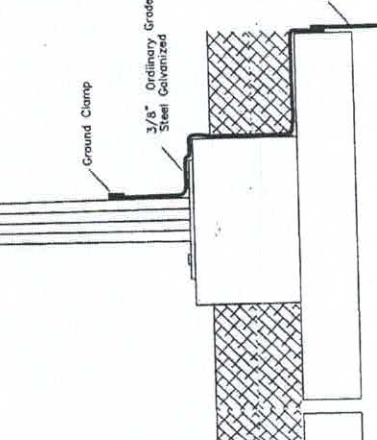
Insulator, Single Conductor Suspension with Complete Fittings and Clamp



69 KV STEEL TRANSMISSION POLE
CLEARANCE DIAGRAM FOR TYPE
SCSP "Bc", "Cc" & "Dc"

OWNER		NATIONAL POWER CORPORATION	
PROJECT		AGHAM ROAD, DILIMAN, QUEZON CITY	
LOCATION		CATANDUANES	
TITLE		69 KV STEEL TRANSMISSION POLE CLEARANCE DIAGRAM FOR TYPE SCSP "Bc", "Cc" & "Dc"	
DESIGNED	BY	CHKD	DATE
DRAWN	RVC		
REVIEWED	PRINCIPAL ENGR. JARDOT		
CHECKED			
ELEC.			
MECH.			
SUBMITTED		BY: R. V. CABALQUINTO Project Engineer B	
RECOMMENDED		P. R. PAMEN Project Engineer	
APPROVED		A. M. TOLISCO, JR. Manager EEDB	
DWG. NO.	COVI-BDE-95-013	SPCS NO.	LUP1223185d9
SCALE	1:1	REV 0	

- NOTE:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
 2. POLE BUTT SHALL HAVE A MAXIMUM OUTSIDE DIAMETER OF 800mm
 3. INSULATORS ARE COMPOSITE/SILICONE RUBBER TYPE



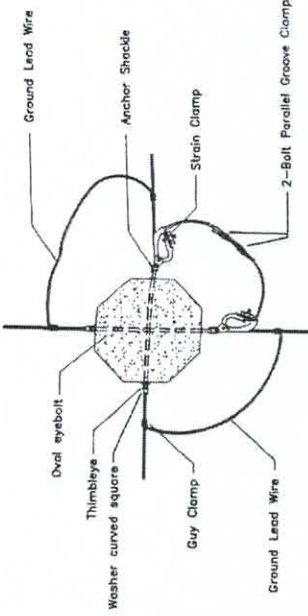
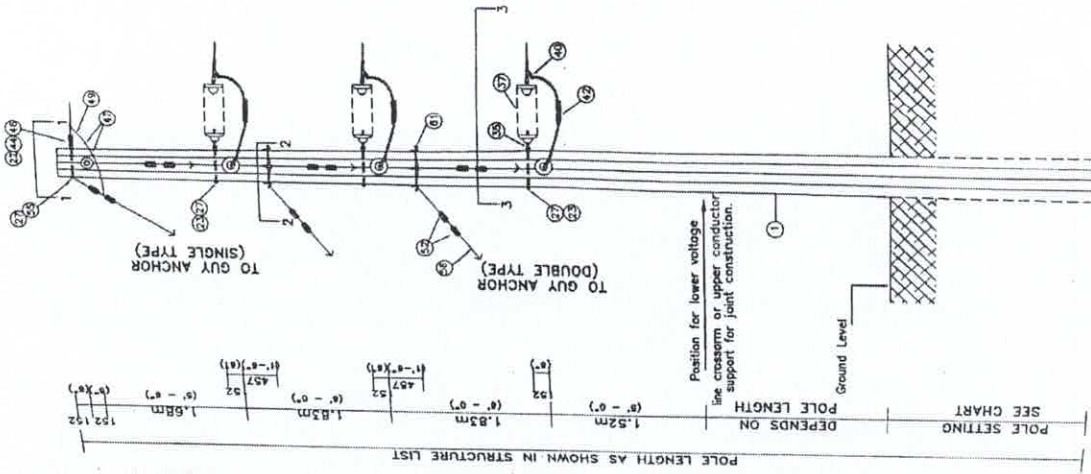
3/8" Ordinary Grade Steel Galvanized

Ground Rod with Ground Clamp

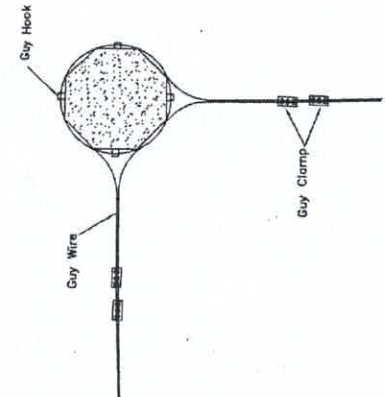
REV	DATE	NATURE OF REVISION	BY	CHKD	RECD	APPD

NOT TO SCALE

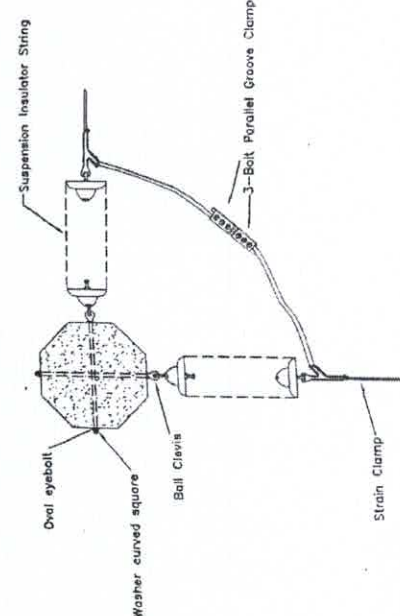
Annex C



SECTION 1 - 1



SECTION 2 - 2



SECTION 3 - 3

BILL OF MATERIALS		
ITEM NO.	DESCRIPTION	QTY.
1	Steel Pole	1
22	Eyebolt, Oval, 16 (5/8") x 305 (12")	2
23	Eyebolt, Oval, 16 (5/8") x 406 (16")	6
27	Washer, Curved, Square 76 (3") x 76 (3") x 6 (1/4") for 16 (5/8") Dia. Bolt	8
35	Bolt Clevis	6
37	Insulator, Suspension, Ball & Socket Type, 146 (5.3/4") x 254 (10")	36
40	Strain Clamp with Socket Filling for 336.4 MCM ACSSR	6
42	Parallel Groove Clamp for 336.4 MCM ACSSR	6
44	Anchor Shackle, 14 (6/16") with 16 (5/8") Pin for OHGW	2
46	Strain Clamp, for OHGW	8
47	Clamp, Parallel Groove, 2-bolt for OHGW	6
49	Ground Lead Wire, 10 (3/8") Dia., Ordinary Grade Class "C" (FL)	4 x 8 *
52	3-Bolt Guy clamp	1 * - *
53	Anchor Rod Thimbles, 16 (5/8") x 2.44m (8' - 0")	1 * - *
54	Anchor Rod, Tensile 19 (3/4") x 2.44m (8')	1 * - *
55	Angle Thimbles, 16 (5/8") Dia. bolt	70 * 140 *
56	Guy Wire, 11 (7/16") Dia. High Strength, 7-Strand (FL)	1 * - *
57	Square Concrete Anchor Block, 250mm x 250mm x 1200mm	1 * - *
61	Guy Hook	4 *
26	Washer, Curved, Square, 102 (4") x 102 (4") x 6 (1/4") for 19 (3/4") Dia. Bolt	1 * 1 *

* - Refer to Construction Details and Guying Arrangement and to Structure List for the required gys for the particular structure. The quantities shown on the table are on per anchor rod basis.

NATIONAL POWER CORPORATION
AGHAM ROAD, DILIMAN, QUEZON CITY

PROJECT: REHAB. OF MOBO-ARORROY "3" 69 KV TL. PROJ. (REV. 1)

LOCATION: MASBATE

TITLE: 69 KV STEEL POLE TRANSMISSION LINE
LINE CONSTRUCTION TYPE "D"
SINGLE POLE/SINGLE CIRCUIT

DESIGNED	BY	DATE	SUBMITTED
DRAWN	EMM	08.15.12	08.15.12
REVIEWED	PRINCIPAL ENGR. ARBORT.	08.15.12	
CHECKED			
ELEC.			
MECH.			

APPROVED: **P. M. LOPEZ**
Mechanical Engr. (R. C. O.)

DWG. NO. MOBA-RDE-59-004
SPECS. NO. LuzP12Z311Sr

SCALE: N. T. S.
BY: CHND
RECO: WPD
NATURE OF PERSON:
REV:
DATE:
APPD:
REV. 0

69 KV STEEL POLE DESCRIPTIONS

Types of Pole	Length					
	50 ft 15.25 m	55 ft 16.80 m	60 ft 18.30 m	65 ft 19.85 m	70 ft 21.35 m	75 ft 22.90 m
B (18" - 21")						
Tip Diameter (mm)	200					
Butt Diameter (mm)	370	395				
Thickness (mm)	6	6				
E (21" - 15")						
Tip Diameter (mm)	200	200	200	200	200	200
Butt Diameter (mm)	585	625	660	700	740	775
Thickness (mm)	6	6	6	6	6	6
C (18" - 30")						
Tip Diameter (mm)		250	250		250	
Butt Diameter (mm)		690	730		805	
Thickness (mm)		6	6		6	
D (30" - 90")						
Tip Diameter (mm)		350	350	350	350	
Butt Diameter (mm)		815	840	850	890	
Thickness (mm)		6	6	9	10	
Embedded to Ground	7.0 ft 2.13 m	7.5 ft 2.30 m	8.0 ft 2.50 m	8.5 ft 2.60 m	9.0 ft 2.80 m	9.5 ft 2.90 m

Types of Pole	Length					
	50 ft 15.25 m	55 ft 16.80 m	60 ft 18.30 m	65 ft 19.85 m	70 ft 21.35 m	75 ft 22.90 m
HS (18" - 21") RPLP						
Tip Diameter (mm)	200			200		
Butt Diameter (mm)	360			420		
Thickness (mm)	6			6		
HT (21" - 15") RPLP						
Tip Diameter (mm)	200	200	200	200	200	200
Butt Diameter (mm)	530	550	580	615	645	645
Thickness (mm)	6	6	6	6	6	6
3T (15" - 30")						
RPLP						
Tip Diameter (mm)	250	250	250	250	250	250
Butt Diameter (mm)	540	565	595	615	640	640
Thickness (mm)	6	6	6	6	6	6
MP						
Length (ft)	45	50	55	60	65	
Tip Diameter (mm)	250	250	250	250	250	250
Butt Diameter (mm)	540	565	585	615	640	640
Thickness (mm)	6	6	6	6	6	6
Embedment (mm)	Refer to Electrical Drawing					
3D (30" - 90")						
Tip Diameter (mm)	300	300	300	300	300	300
Butt Diameter (mm)	710	750	780	830	870	870
Thickness (mm)	7	7	7	7	7	7
Embedded to Ground	7.0 ft 2.13 m	7.5 ft 2.30 m	8.0 ft 2.50 m	8.5 ft 2.60 m	9.0 ft 2.80 m	9.5 ft 2.90 m

NOTES:

- THE MATERIAL FOR POLE SHALL BE 450 MPa (65 ksi) MINIMUM YIELD STRENGTH OF ROLLED STEEL PLATE
- THE THICKNESS OF POLE SHALL BE EMBOSSED LEGIBLY ON THE FLOOY 15 METERS HIGH ABOVE THE GROUND BEFORE CALLAWING. THE SIZE/HEIGHT OF THE LETTERS SHALL BE THREE (3) CENTIMETERS.
- WIND VELOCITY USED FOR THE DESIGN OF POLES - 240 KPH MAXIMUM SPAN FROM POLE TO POLE
 150 METERS - FOR TYPES B, E, C AND D
 300 METERS - FOR TYPES HS AND HT
 375 METERS - FOR TYPES 3T AND 3D

NATIONAL POWER CORPORATION
 ACHAM ROAD, DIUNAN, QUEZON CITY

ENGINEER: **AL. B. RODRIGUEZ**
 CHECKED: **J. J. JORINNA**
 REVISIONS: **V. M. DELGADO, JR.**

69 KV DIRECT BURIED STEEL POLES
 (STEEL POLE DESCRIPTIONS)

PROJECT: ERECTOR, AND SUPPLY OF OTHER TL MATERIALS FOR MORSO - SARAIGAN '1 & '2' 49 KV TL PROJ. (REV. 1)

DATE: **MOB8C-BDC-04.02** DESIGNED BY: **Luz P1223455dg**

SCALE: **BID DRAWING** REV: **0**