



July 28, 2015

**MEMORANDUM No. 2015-022**

**TO : ALL ELECTRIC COOPERATIVES**  
**SUBJECT : EQUIPMENT & MATERIALS PRICE INDEX 2015**

The National Electrification Administration (NEA) issued Memorandum No. 2015-021 dated June 25, 2015 to all Electric Cooperatives (ECs) re "Equipment & Materials Price Index (empi) 2015" to reflect the current costs of equipment and materials (E/M) being used by the ECs. The empi2015 will also serve as reference/guide of the ECs in their procurement process and NEA's tool in the evaluation of the Sitio Electrification Program (SEP)/Barangay Line Enhancement Program (BLEP) subsidy funded projects and other types of loans.

The aforementioned memorandum shall take effect fifteen (15) days upon filing with the University of the Philippines (UP) Law Center pursuant to the Presidential Memorandum Circular No. 11, dated October 9, 1992.

For your information and guidance.

  
**EDITA S. BUENO**  
Administrator

NATIONAL ELECTRIFICATION ADMINISTRATION  
Office of the Administrator



NEA-OA219506

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7/30/15



**NATIONAL ELECTRIFICATION ADMINISTRATION**  
 "The 1<sup>st</sup> Performance Governance System-Institutionalized National Government Agency"  
 57 NIA Road, Government Center Diliman, Quezon City 1100



June 25, 2015

**MEMORANDUM No. 2015-021**

**TO : ALL ELECTRIC COOPERATIVES**

**SUBJECT : EQUIPMENT & MATERIALS PRICE INDEX 2015**

The National Electrification Administration (NEA) is issuing the Equipment and Materials Price Index 2015 (**empi2015**) in order to reflect the current costs of equipment and materials (E/M) being used by the Electric Cooperatives (ECs). The empi2015 will serve as a tool for NEA in the evaluation of EC projects funded by subsidy or loans, as well as guide for ECs in their procurement process.

We have requested all ECs in Luzon, Visayas and Mindanao to submit their latest E/M bidding results. Sixty three (63) ECs responded: 27 from Luzon, 23 from Visayas and 13 from Mindanao. NEA requested the Philippine Association of Technical Managers of Electric Cooperatives (PHILATMEC) to assist in developing a more comprehensive Price Index for 2015. Consultations with various manufacturers, suppliers, contractors and leadership associations of the ECs were held to ensure wider exchange of information and transparency on the process. Thus, the empi 2015 is the result of the adoption of these multiple processes of consultations.

Prices submitted are inclusive of value added tax, freight and handling and delivered directly to the ECs. Other prices submitted are exclusive of duty tax. For purposes of comparison, duty tax is applied to all items. The highest winning bid except for some outliers had been chosen to be the price index. For other items, the price had been taken from the suggested retail price of various suppliers. Prices of E/M are always dependent on their quality and specifications. In line with our Resiliency Program, there is a need to be specific on the description of E/M being required on the design of the distribution system particularly the poles, distribution transformers, kilowatt-hour meters, substations and other equipment in order to reflect the specific cost of a particular item to be used.

The prices increased by an average of 12% for hardware, 13% for insulators, 5% for conductors, 5% for transformers, 10% for steel poles and 10% for fuses as compared to the 2012 empi. All prices in the new Price Index are rounded off.

For small island coops, same price index for mainland ECs will be used as basis for the Approved Budget for the Contract exclusive of the freight and handling that will be incurred in delivering the items from the nearest mainland to the small island EC.

Attached is the empi2015, consisting of 685 items and substation E/M for your reference. For any query/clarification, please contact the Engineering Department thru telephone number +6329291909 loc.190 or through email address: nea.engineeringtod@yahoo.com

For your information and guidance.

*Edita S. Bueno*  
**EDITA S. BUENO**  
 Administrator

Republic of the Philippines  
**NATIONAL ELECTRIFICATION ADMINISTRATION**  
 Quezon City

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 Quezon City

EQUIPMENT & MATERIAL PRICE INDEX 2015 (empi2015)

No.	DESCRIPTION	UNIT COST
1	Anchor, Expanding, 8 - Ways, Hot Dip Galvanized	650
2	Anchor, Log, Wood 8" X 4'	727
3	Anchor, Log, Concrete, 8" X 4'	850
4	Anchor, Screw Eye Shaft, 3/4" X 8', HDG, Forged	1,000
5	Anchor, Shackle, 3/4", Drop Forged Steel, 69KV	350
6	Attachment, Guy, Malleable Type with 11/16" Hole Diameter	115
7	Bolt, Carriage 3/8" X 4-1/2", Hot Dip Galvanized	11
8	Bolt, Carriage 3/8" X 5", Hot Dip Galvanized	13
9	Bolt, Carriage 3/8" X 6", Hot Dip Galvanized	14
10	Bolt, Clevis 5/8" X 12", Hot Dip Galvanized	45
11	Bolt, Clevis 5/8" X 14", Hot Dip Galvanized	86
12	Bolt, Clevis 5/8" X 16", Hot Dip Galvanized	90
13	Bolt, Clevis 3/4" X 14", Hot Dip Galvanized	120
14	Bolt, Clevis 3/4" X 16", Hot Dip Galvanized	140
15	Bolt, Clevis 3/4" X 18", Hot Dip Galvanized	150
16	Bolt, Double Arming 5/8" X 14", Hot Dip Galvanized	75
17	Bolt, Double Arming 5/8" X 16", Hot Dip Galvanized	80
18	Bolt, Double Arming 5/8" X 18", Hot Dip Galvanized	85
19	Bolt, Double Arming 5/8" X 20", Hot Dip Galvanized	88
20	Bolt, Double Arming 5/8" X 22", Hot Dip Galvanized	95
21	Bolt, Double Arming 5/8" X 24", Hot Dip Galvanized	100
22	Bolt, Double Arming 5/8" X 26", Hot Dip Galvanized	102
23	Bolt, Double Arming 5/8" X 28", Hot Dip Galvanized	106
24	Bolt, Double Arming 5/8" X 30", Hot Dip Galvanized	110
25	Bolt, Double Arming 5/8" X 32", Hot Dip Galvanized	114
26	Bolt, Double Arming 3/4" X 22", Hot Dip Galvanized	145
27	Bolt, Double Arming 3/4" X 24", Hot Dip Galvanized	150
28	Bolt, Double Arming 3/4" X 26", Hot Dip Galvanized	160
29	Bolt, Double Arming 3/4" X 28", Hot Dip Galvanized	165
30	Bolt, Double Arming 3/4" X 30", Hot Dip Galvanized	170
31	Bolt, Double Upset 5/8" X 8", Hot Dip Galvanized, Forged	88
32	Bolt, Double Upset 5/8" X 9", Hot Dip Galvanized, Forged	90
33	Bolt, Double Upset 5/8" X 10", Hot Dip Galvanized, Forged	102
34	Bolt, Double Upset 5/8" X 12", Hot Dip Galvanized, Forged	106
35	Bolt, Double Upset 5/8" X 14", Hot Dip Galvanized, Forged	114
36	Bolt, Double Upset 5/8" X 16", Hot Dip Galvanized, Forged	118
37	Bolt, Double Upset 5/8" X 18", Hot Dip Galvanized, Forged	120
38	Bolt, Machine 1/2" X 2", Hot Dip Galvanized	11
39	Bolt, Machine 1/2" X 4", Hot Dip Galvanized	17
40	Bolt, Machine 1/2" X 6", Hot Dip Galvanized	21
41	Bolt, Machine 1/2" X 8", Hot Dip Galvanized	24
42	Bolt, Machine 1/2" X 10", Hot Dip Galvanized	31
43	Bolt, Machine 1/2" X 12", Hot Dip Galvanized	36
44	Bolt, Machine 1/2" X 14", Hot Dip Galvanized	46
45	Bolt, Machine 1/2" X 16", Hot Dip Galvanized	48
46	Bolt, Machine 3/4" X 6", Hot Dip Galvanized	38
47	Bolt, Machine 3/4" X 8", Hot Dip Galvanized	45
48	Bolt, Machine 3/4" X 10", Hot Dip Galvanized	76
49	Bolt, Machine 3/4" X 12", Hot Dip Galvanized	80
50	Bolt, Machine 3/4" X 14", Hot Dip Galvanized	95
51	Bolt, Machine 3/4" X 16", Hot Dip Galvanized	102
52	Bolt, Machine 3/4" X 18", Hot Dip Galvanized	110
53	Bolt, Machine 3/4" X 20", Hot Dip Galvanized	112
54	Bolt, Machine 3/4" X 22", Hot Dip Galvanized	114
55	Bolt, Machine 5/8" X 2", Hot Dip Galvanized	17
56	Bolt, Machine 5/8" X 4", Hot Dip Galvanized	18
57	Bolt, Machine 5/8" X 5", Hot Dip Galvanized	22
58	Bolt, Machine 5/8" X 6", Hot Dip Galvanized	34
59	Bolt, Machine 5/8" X 8", Hot Dip Galvanized	35
60	Bolt, Machine 5/8" X 9", Hot Dip Galvanized	37
61	Bolt, Machine 5/8" X 10", Hot Dip Galvanized	42
62	Bolt, Machine 5/8" X 12", Hot Dip Galvanized	45
63	Bolt, Machine 5/8" X 14", Hot Dip Galvanized	52
64	Bolt, Machine 5/8" X 16", Hot Dip Galvanized	60

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EQUIPMENT & MATERIAL PRICE INDEX 2015 (empi2015)

No.	DESCRIPTION	UNIT COST
65	Bolt, Machine 5/8" X 18", Hot Dip Galvanized	62
66	Bolt, Machine 5/8" X 20", Hot Dip Galvanized	64
67	Bolt, Machine 5/8" X 22", Hot Dip Galvanized	67
68	Bolt, Machine 5/8" X 24", Hot Dip Galvanized	68
69	Bolt, Machine 5/8" X 26", Hot Dip Galvanized	75
70	Bolt, Oval Eye 3/4" X 10", Hot Dip Galvanized, Forged	120
71	Bolt, Oval Eye 3/4" X 12", Hot Dip Galvanized, Forged	130
72	Bolt, Oval Eye 3/4" X 14", Hot Dip Galvanized, Forged	140
73	Bolt, Oval Eye 3/4" X 16", Hot Dip Galvanized, Forged	150
74	Bolt, Oval Eye 3/4" X 18", Hot Dip Galvanized, Forged	155
75	Bolt, Oval Eye 3/4" X 20", Hot Dip Galvanized, Forged	175
76	Bolt, Oval Eye 3/4" X 22", Hot Dip Galvanized, Forged	180
77	Bolt, Oval Eye 3/4" X 24", Hot Dip Galvanized, Forged	185
78	Bolt, Oval Eye 5/8" X 6", Hot Dip Galvanized, Forged	65
79	Bolt, Oval Eye 5/8" X 8", Hot Dip Galvanized, Forged	80
80	Bolt, Oval Eye 5/8" X 9", Hot Dip Galvanized, Forged	88
81	Bolt, Oval Eye 5/8" X 10", Hot Dip Galvanized, Forged	90
82	Bolt, Oval Eye 5/8" X 12", Hot Dip Galvanized, Forged	94
83	Bolt, Oval Eye 5/8" X 14", Hot Dip Galvanized, Forged	96
84	Bolt, Oval Eye 5/8" X 16", Hot Dip Galvanized, Forged	100
85	Bolt, Oval Eye 5/8" X 18", Hot Dip Galvanized, Forged	114
86	Bolt, Oval Eye 5/8" X 20", Hot Dip Galvanized, Forged	116
87	Bolt, Oval Eye 5/8" X 22", Hot Dip Galvanized, Forged	117
88	Bolt, Shoulder Eye 3/4" X 14", Hot Dip Galvanized, Forged	160
89	Bolt, Shoulder Eye 3/4" X 16", Hot Dip Galvanized, Forged	179
90	Bolt, Shoulder Eye 3/4" X 18", Hot Dip Galvanized, Forged	185
91	Bolt, Shoulder Eye 3/4" X 20", Hot Dip Galvanized, Forged	190
92	Bolt, Single Upset 5/8" X 8", Hot Dip Galvanized, Forged	81
93	Bolt, Single Upset 5/8" X 9", Hot Dip Galvanized, Forged	84
94	Bolt, Single Upset 5/8" X 10", Hot Dip Galvanized, Forged	90
95	Bolt, Single Upset 5/8" X 12", Hot Dip Galvanized, Forged	91
96	Bolt, Single Upset 5/8" X 14", Hot Dip Galvanized, Forged	92
97	Bolt, Single Upset 5/8" X 16", Hot Dip Galvanized, Forged	104
98	Bolt, Single Upset 5/8" X 18", Hot Dip Galvanized, Forged	106
99	Bolt, Thimble Eye 5/8" X 8", Angle Type, HDG, Forged	90
100	Bolt, Thimble Eye 5/8" X 10", Angle Type, HDG, Forged	94
101	Bolt, Thimble Eye 5/8" X 12", Angle Type, HDG, Forged	95
102	Bolt, Thimble Eye 5/8" X 14", Angle Type, HDG, Forged	97
103	Bolt, Thimble Eye 5/8" X 16", Angle Type, HDG, Forged	100
104	Bolt, Thimble Eye 3/4" X 10", Angle Type, HDG, Forged	135
105	Bolt, Thimble Eye 3/4" X 12", Angle Type, HDG, Forged	140
106	Bolt, Thimble Eye 3/4" X 14", Angle Type, HDG, Forged	150
107	Bolt, Thimble Eye 3/4" X 16", Angle Type, HDG, Forged	155
108	Bolt, Thimble Eye 5/8" X 8", Straight Type, HDG, Forged	73
109	Bolt, Thimble Eye 5/8" X 9", Straight Type, HDG, Forged	74
110	Bolt, Thimble Eye 5/8" X 10", Straight Type, HDG, Forged	85
111	Bolt, Thimble Eye 5/8" X 12", Straight Type, HDG, Forged	94
112	Bolt, Thimble Eye 5/8" X 14", Straight Type, HDG, Forged	97
113	Bolt, Thimble Eye 5/8" X 16", Straight Type, HDG, Forged	98
114	Bolt, Thimble Eye 3/4" X 10", Straight Type, HDG, Forged	120
115	Bolt, Thimble Eye 3/4" X 12", Straight Type, HDG, Forged	129
116	Bolt, Thimble Eye 3/4" X 14", Straight Type, HDG, Forged	138
117	Bolt, Thimble Eye 3/4" X 16", Straight Type, HDG, Forged	145
118	Brace Cross-arm, 18" Drop 48" Span	560
119	Brace Cross-arm, 18" Drop 60" Span	756
120	Brace, Alley Arm, 7' Diagonal	950
121	Brace, Alley Arm, 10'	1,250
122	Brace, Angular, 60", Steel, Hot Dip Galvanized	650
123	Brace, Cross-arm, Flat 28", Steel, Hot Dip Galvanized	105
124	Brace, Diagonal, 10', Steel, Hot Dip Galvanized	1,300
125	Brace, Diagonal, 8', Steel, Hot Dip Galvanized	1,100
126	Brace, Sidearm, Diagonal, 7', Steel, Hot Dip Galvanized	1,000
127	Brace, Sidearm, Vertical	600
128	Bracket, Angle, 5/8"	65
129	Bracket, Extension, L type	720
130	Bracket, Clevis Dead-end Without Spool	89
131	Bracket, Mounting for Fuse Cut-Out & Arrester	900
132	Bracket, Mounting Transformer, Cluster Type, Hot Dip Galvanized	2,400
133	Bracket, Mounting Transformer, Single Type, Hot Dip Galvanized	850
134	Bracket, Secondary Without Spool	102
135	Bracket, Transformer	738
136	Bracket, Transformer, Secondary With 1-3/4" Spool	89
137	Capacitor, 50 KVAR	21,500

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EQUIPMENT & MATERIAL PRICE INDEX 2015 (empi2015)

No.	DESCRIPTION	UNIT COST
138	Capacitor, 75 KVAR	22,000
139	Capacitor, 100 KVAR	24,400
140	Capacitor, 150 KVAR	28,000
141	Capacitor, 200 KVAR	37,000
142	Clamp, Anchor Bonding, Single Eye Rod, 5/8	46
143	Clamp, Anchor Bonding Twin Eye 3/4"	65
144	Clamp, Dead-end Strain, #4 ACSR	311
145	Clamp, Dead-end Strain, #2 ACSR	330
146	Clamp, Dead-end Strain, #1/0 ACSR	343
147	Clamp, Dead-end Strain, #2/0 ACSR	370
148	Clamp, Dead-end Strain, #4/0 ACSR	576
149	Clamp, Dead-end Strain, #336.4 MCM	1,050
150	Clamp, Ground wire, Dead-end, Strain, Clevis Type	290
151	Clamp, Guy Bond	135
152	Clamp, Guy Straight, 3 Bolt, Heavy Duty Steel, Hot Dip Galvanized	156
153	Clamp, Hot Line, #2 - #4/0 ACSR	425
154	Clamp, Loop Dead-end, #6 ACSR	22
155	Clamp, Loop Dead-end, #4 ACSR	30
156	Clamp, Loop Dead-end, #2 ACSR	35
157	Clamp, Loop Dead-end, #1/0 ACSR	40
158	Clamp, Loop Dead-end, #6 to #2/0 ACSR	60
159	Clamp, Pole Mounting (5-6), Type CA	240
160	Clamp, Pole Mounting (6-7), Type CA	245
161	Clamp, Pole Mounting (7-8), Type CA	250
162	Clamp, Pole Mounting (8-9), Type CA	280
163	Clamp, Pole Mounting (9-10), Type CA	285
164	Clamp, Pole Mounting (10-11), Type CA	290
165	Clamp, Pole Mounting (11-12), Type CA	300
166	Clamp, Pole Mounting (12-13), Type CA	350
167	Clamp, Pole Mounting (14-15), Type CA	355
168	Clamp, Pole Mounting (15-16), Type CA	420
169	Clamp, Pole Mounting (5-6), Type RL	265
170	Clamp, Pole Mounting (6-7), Type RL	270
171	Clamp, Pole Mounting (7-8), Type RL	275
172	Clamp, Pole Mounting (8-9), Type RL	310
173	Clamp, Pole Mounting (9-10), Type RL	320
174	Clamp, Pole Mounting (10-11), Type RL	330
175	Clamp, Pole Mounting (11-12), Type RL	340
176	Clamp, Pole Mounting (12-13), Type RL	370
177	Clamp, Pole Mounting (13-14), Type RL	400
178	Clamp, Pole Mounting (14-15), Type RL	410
179	Clamp, Pole Mounting (15-16), Type RL	450
180	Clamp, Pole, Single Support	298
181	Clamp, Suspension, #4 - #4/0 ACSR	450
182	Clamp, Suspension, #336 MCM	620
183	Clamp, Suspension, 69KV	800
184	Clamp, Suspension, Aluminum Alloy Clevis, 2 Bolts #2/0 ACSR	392
185	Clevis, Ball Y	450
186	Clevis, Secondary Swinging Without Spool, Hot Dip Galvanized	75
187	Clevis, Service, Dead-end Without Spool, Hot Dip Galvanized	67
188	Clevis, Service, Swinging Without Spool, Hot Dip Galvanized	70
189	Clip, Ground wire	6
190	Clip, Guy Wire	9
191	Compression, Sleeve Splice, #2 ACSR	490
192	Compression, Sleeve Splice, #1/0 ACSR	730
193	Compression, Sleeve Splice, #2/0 ACSR	1,010
194	Compression, Sleeve Splice, #3/0 ACSR	1,045
195	Compression, Sleeve Splice, #4/0 ACSR	1,100
196	Compression, Sleeve Splice, #336.4 ACSR	1,150
197	Compression, Sleeve, #4 ACSR, QUI 54	55
198	Compression, Sleeve, #1/0 ACSR	20
199	Compression, Sleeve, #2/0 ACSR	25
200	Compression, Sleeve, #4/0 ACSR	40
201	Compression, Sleeve, #336.4 ACSR	190
202	Conductor, 25 kv Insulated, 160 mm <sup>2</sup> ACSR AW/OC-SB 18/1 (Meters)	200
203	Conductor, 25 kv Insulated, 160 mm <sup>2</sup> ACSR TR/OC-SB 18/1 (Meters)	220
204	Conductor, 25 kv Insulated, 58 mm <sup>2</sup> ACSR AW/OC-SB 6/1 (Meters)	85
205	Conductor, 25 kv Insulated, 58 mm <sup>2</sup> ACSR TR/OC-SB 6/1 (Meters)	94
206	Conductor, 25 kv Insulated, 95 mm <sup>2</sup> ACSR AW/OC-SB 6/1 (Meters)	130
207	Conductor, 25 kv Insulated, 95 mm <sup>2</sup> ACSR TR/OC-SB 6/1 (Meters)	143
208	Conductor, 25 kv Insulated, ACSR AW/OC-SB #2/0, AWG 6/1 (Meters)	98
209	Conductor, 25 kv Insulated, ACSR AW/OC-SB #3/0, AWG 6/1 (Meters)	108
210	Conductor, 25 kv Insulated, ACSR AW/OC-SB #4/0, AWG 6/1 (Meters)	141

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Name & Signature: Lenani L. Rico

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AUG 03 2015

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EQUIPMENT & MATERIAL PRICE INDEX 2015 (empi2015)

No.	DESCRIPTION	UNIT COST
211	Conductor, 25 kv insulated, ACSR AW/OC-SB #336, AWG 18/1 (Meters)	216
212	Conductor, Bare, ACSR #4, AWG 6/1 (Meters)	18
213	Conductor, Bare, ACSR #2, AWG 6/1 (Meters)	22
214	Conductor, Bare, ACSR #1/0, AWG 6/1 (Meters)	34
215	Conductor, Bare, ACSR #2/0, AWG 6/1 (Meters)	41
216	Conductor, Bare, ACSR #3/0, AWG 6/1 (Meters)	44
217	Conductor, Bare, ACSR #4/0, AWG 6/1 (Meters)	65
218	Conductor, Bare, ACSR #336.4, MCM 26/7 STD (Meters)	108
219	Conductor, Bare, Copper #4/0	490
220	Conductor, Duplex, #6 AWG 6/1 (Meters)	22
221	Conductor, Duplex, #4, AWG 6/1 (Meters)	26
222	Conductor, Duplex, #2 AWG 6/1 (Meters)	44
223	Conductor, Duplex, #1/0 AWG 6/1 (Meters)	75
224	Conductor, Duplex, #2/0 AWG 6/1 (Meters)	93
225	Conductor, Insulated, ACSR #2, AWG 6/1 (Meters)	40
226	Conductor, Insulated, ACSR #1/0, AWG 6/1 (Meters)	51
227	Conductor, Insulated, ACSR #2/0, AWG 6/1 (Meters)	58
228	Connector, Compression, #6 - #4 ACSR Run To #6 - #4	28
229	Connector, Compression, #2 - #4/0 ACSR Run To #6 - #2	81
230	Connector, Compression, YHO 100, Run #6 - #2 -Tap #6 - #2	28
231	Connector, Compression, YHO 125, Run #6 - #1/0 - Tap #6 - #2	40
232	Connector, Compression, YHO 150, Run #3 - #1/0 -Tap #6- #2	45
233	Connector, Compression, YHD 200, Run #1/0 - #2/0 - Tap #6 - #2	80
234	Connector, Compression, YHD 250, Run #1 - #4/0 -Tap #6 - #2	82
235	Connector, Compression, YHD 300, Run #1/0 - #2/0 - Tap #1/0 - #2/0	90
236	Connector, Compression, YHD 350, Run #3/0 - #4/0 -Tap #1 - #2/0	90
237	Connector, Compression, YHD 400, Run #2/0 - #4/0 - Tap #2/0 - #4/0	117
238	Connector, Ground Rod Clamp, 5/8"	20
239	Connector, Solderless, Copper, #4/0	350
240	Connector, Solderless, Copper, #336.4	600
241	Connector, Split Bolt	142
242	Connector, Wedge Type, #6 - #6 ACSR	95
243	Connector, Wedge Type, #6 - #8 ACSR	95
244	Connector, Wedge Type, #6 - #12 ACSR	125
245	Connector, Wedge Type, #6 - #2 ACSR	150
246	Connector, Wedge Type, #2/0 - #6 ACSR	230
247	Connector, Wedge Type, #2 - #2/0 ACSR	210
248	Connector, Wedge Type, #2/0 - #2 ACSR	210
249	Connector, Wedge Type, #1/0 - #2 ACSR	200
250	Connector, Wedge Type, #1/0 - #1/0 ACSR	270
251	Connector, Wedge Type, #1/0 - #2/0 ACSR	300
252	Connector, Wedge Type, #2/0 - #2/0 ACSR	330
253	Connector, Wedge Type, #4/0 - #4/0 ACSR	350
254	Connector, Wedge Type, #2/0 - #4/0 ACSR	340
255	Connector, Wedge Type, #336 - #336 MCM	550
256	Crossarm, Steel, 3" X 4" X 6', Hot Dip Galvanized	1,200
257	Crossarm, Steel, 3" X 4" X 8', Hot Dip Galvanized	1,450
258	Crossarm, Steel, 3" X 4" X 10', Hot Dip Galvanized	1,750
259	Crossarm, Steel, 4-1/2" X 5-1/2" X 8", Hot Dip Galvanized	3,600
260	Crossarm, Steel, 4-1/2" X 5-1/2" X 10", Hot Dip Galvanized	4,500
261	Crossarm, Wood, 3-1/2" X 4-1/2" X 8'	1,900
262	Crossarm, Wood, 3-3/4" X 4-3/4" X 8'	2,100
263	Crossarm, Wood, 3-3/4" X 4-3/4" X 10'	2,800
264	CT, Box, 10"X 14"X 18"	3,000
265	Current Transformer 10/5 : 5, 15KV	44,000
266	Current Transformer 100 : 5, 15KV, Extended Range	57,000
267	Current Transformer 100 : 5, 600V	5,800
268	Current Transformer 100/50 : 5, 15KV	42,000
269	Current Transformer 100/50 : 5, 69KV	195,000
270	Current Transformer 100/75/50 : 5, 15KV	47,000
271	Current Transformer 15 : 5, 15KV	36,000
272	Current Transformer 150 : 5, 15KV	33,000
273	Current Transformer 1500 : 5, 600V, Extended Range	11,000
274	Current Transformer 20 : 5, 15KV	40,500
275	Current Transformer 20/10 : 5, 15KV	40,000
276	Current Transformer 200 : 5, 15KV, Extended Range	58,000
277	Current Transformer 200 : 5, 600V	6,000
278	Current Transformer 200/100/50 : 5A, 69KV	200,000
279	Current Transformer 200:5, 600V	5,800
280	Current Transformer 25 : 5, 15KV	89,500
281	Current Transformer 25 : 5, 15KV	89,500
282	Current Transformer 30 : 5, 15KV, Extended Range	57,000
283	Current Transformer 30/25/15 : 5A, 15KV	44,000

Republic of the Philippines  
**NATIONAL ELECTRIFICATION ADMINISTRATION**  
 Quezón City

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27 Jul 15  
 Date / Time

Leliani L. Riced  
 Name & Signature

OFFICE of the NATIONAL ADMINISTRATIVE REGISTER  
 ADMINISTRATIVE RULES  
 AND REGULATIONS

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AUG 03 2015

TIME: \_\_\_\_\_ BY: *LOL*

EQUIPMENT & MATERIAL PRICE INDEX 2015 (empi2015)

No.	DESCRIPTION	UNIT COST
284	Current Transformer 300 : 5, 15KV, Extended Range	58,000
285	Current Transformer 300 : 5, 600V	6,500
286	Current Transformer 300 : 5, 600V	6,200
287	Current Transformer 300 : 5, 600V, Extended Range	6,900
288	Current Transformer 300-250-150 : 5A, 15KV	47,000
289	Current Transformer 40/30/20 : 5A, 15KV	46,000
290	Current Transformer 400 : 5, 15KV, Extended Range	58,000
291	Current Transformer 400/300/200 : 5, 15KV	47,000
292	Current Transformer 50 : 5, 15KV, Extended Range	57,000
293	Current Transformer 50/5 : 5, 15KV	41,000
294	Current Transformer 500/400/300 : 5, 15KV	46,000
295	Current Transformer 600 : 5, 600V	6,800
296	Current Transformer 600 : 5, 69KV	218,000
297	Current Transformer 600/400/200 : 5, 69KV	260,000
298	Current Transformer 75 : 5, 15KV	38,000
299	Current Transformer 800 : 5, 600V, Extended Range	11,000
300	Dead-end Service, Wedge Type, #4 ACSR Conductor (Maximum)	19
301	Eye, Ball	190
302	Fuse Cut-out & Arrester Combination, 15KV, Class 100	4,800
303	Fuse Cut-out & Arrester Combination, 15KV, Class 200	5,600
304	Fuse Cut-Out, 15KV, Class 100	2,600
305	Fuse Cut-Out, 15KV, Class 200	3,500
306	Fuse Cut-out, 23KV, 100A	4,000
307	Guy, Dead-end Grip, 5/16"	100
308	Guy, Dead-end Grip, 3/8"	144
309	Guy, Truss, 69KV, 24"	985
310	Guy, Truss, 69KV, Heavy Guying	1,900
311	Hook, Ball	125
312	Hook, Guy, Hot Dip Galvanized	39
313	Insulator, Dead-end, Clevis Type, Polymer, 15KV	700
314	Insulator, Dead-end, Polymer, 69KV, Y- Clevis & Ball	6,800
315	Insulator, Pin Type, 23KV, 56-1	250
316	Insulator, Pin Type, 23KV, 56-2	350
317	Insulator, Pin Type, Polymer, ANSI, Class 55-3	500
318	Insulator, Pin Type, Polymer, ANSI, Class 55-5	600
319	Insulator, Pin Type, Porcelain, ANSI, Class 55-3	130
320	Insulator, Pin Type, Porcelain, ANSI, Class 55-4	120
321	Insulator, Pin Type, Porcelain, ANSI, Class 55-5	160
322	Insulator, Pin Type, Porcelain, ANSI, Class 56-1	190
323	Insulator, Pin Type, Porcelain, ANSI, Class 56-2	200
324	Insulator, Post Type w/ 7" Stud	90
325	Insulator, Spool, 1-3/8", ANSI, Class 53-1	19
326	Insulator, Spool, 1-3/4", ANSI, Class 53-2	21
327	Insulator, Spool, 3", ANSI, Class 53-4	37
328	Insulator, Suspension, 6", ANSI Class 52-1	245
329	Insulator, Suspension Socket Type 10" dia., 69KV	350
330	Insulator, Suspension, 4 shed, Polymer, 15KV	650
331	Insulator, Suspension, Polymer, 69KV, Y - Clevis & Ball	3,500
332	Lag, Screw, 1/2" X 4"	18
333	Lag, Screw, 1/2" X 6"	19
334	Lightning Arrester, 10 KV, 8.4KV MCOV	1,800
335	Lightning Arrester, 10-12 KV, Polymer	2,500
336	Lightning Arrester, 18KV, 15.3KV MCOV	2,500
337	Lightning Arrester, 9-10 KV , Polymer	2,500
338	Lightning Arrester, 27KV, 22.5KV MCOV	3,500
339	Link, Fuse, Universal, Bottom Head, Type K, 100A	290
340	Link, Fuse, Universal, Bottom Head, Type K, 10A	135
341	Link, Fuse, Universal, Bottom Head, Type K, 12A	135
342	Link, Fuse, Universal, Bottom Head, Type K, 140A	550
343	Link, Fuse, Universal, Bottom Head, Type K, 150A	450
344	Link, Fuse, Universal, Bottom Head, Type K, 15A	150
345	Link, Fuse, Universal, Bottom Head, Type K, 1A	120
346	Link, Fuse, Universal, Bottom Head, Type K, 200A	780
347	Link, Fuse, Universal, Bottom Head, Type K, 20A	145
348	Link, Fuse, Universal, Bottom Head, Type K, 25A	175
349	Link, Fuse, Universal, Bottom Head, Type K, 2A	145
350	Link, Fuse, Universal, Bottom Head, Type K, 30A	165
351	Link, Fuse, Universal, Bottom Head, Type K, 35A	170
352	Link, Fuse, Universal, Bottom Head, Type K, 3A	135
353	Link, Fuse, Universal, Bottom Head, Type K, 40A	170
354	Link, Fuse, Universal, Bottom Head, Type K, 45A	175
355	Link, Fuse, Universal, Bottom Head, Type K, 4A	130
356	Link, Fuse, Universal, Bottom Head, Type K, 50A	175

Republic of the Philippines  
**NATIONAL ELECTRIFICATION ADMINISTRATION**  
 Quezon City

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Date / Time  
 24 Jul 15

Name & Signature  
 Leilani L. Rico

U.P. Lobo CENTER  
 OFFICE of the NATIONAL ADMINISTRATIVE REGISTER  
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 AND REGULATIONS

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AUG 03 2015

TIME: \_\_\_\_\_ BY: \_\_\_\_\_

EQUIPMENT & MATERIAL PRICE INDEX 2015 (empi2015)

No.	DESCRIPTION	UNIT COST
357	Link, Fuse, Universal, Bottom Head, Type K, 5A	110
358	Link, Fuse, Universal, Bottom Head, Type K, 60A	200
359	Link, Fuse, Universal, Bottom Head, Type K, 65A	230
360	Link, Fuse, Universal, Bottom Head, Type K, 6A	115
361	Link, Fuse, Universal, Bottom Head, Type K, 75A	235
362	Link, Fuse, Universal, Bottom Head, Type K, 7A	115
363	Link, Fuse, Universal, Bottom Head, Type K, 80A	240
364	Link, Fuse, Universal, Bottom Head, Type K, 8A	120
365	Load Break Switch, Vacuum/SF6, 15KV, 630A ( Stand Alone )	300,000
366	Load Break Switch, Vacuum/SF6, 15KV, 630A ( Remote Control Line Switch )	600,000
367	Meter Box, 13"X10"X8"	1,600
368	Meter Box, 10"X 14"X 18"	3,500
369	Meter Box, 20"X14"X12"	3,800
370	Meter Box, 24"X27"X12"	4,000
371	Meter, Base Socket CL-100, 5 Jaw	1,600
372	Meter, Base Socket CL-200, 4 Jaw	1,800
373	Meter, Base Socket CL-200, 5 Jaw	1,600
374	Meter, Base Socket CL-200, 7 Jaw	7,500
375	Meter, Base Socket, CL-100, Long Clip	350
376	Meter, KWH, 1 Phase, Class 1, 240V, 10(60)A, Bottom Connected, Electronic	1,000
377	Meter, KWH, 1 Phase, Class 1, 240V, 5(100)A, Bottom Connected, Electronic	1,500
378	Meter, KWH, 1 Phase, Class 1, 240V, 10(100)A, Bottom Connected, Electronic	1,600
379	Meter, KWH, 1 Phase, Class 2, 240V, 5(60)A, Bottom Connected, Electro Mechanical	850
380	Meter, KWH, 1 Phase, Class 2, 240V, 10(60)A, Bottom Connected, Electro Mechanical	900
381	Meter, KWH, 1 Phase, Class 100, 2W, 240V, Form 1S, Socket Type, Electronic	1,600
382	Meter, KWH, 1 Phase, Class 100, 2W, 240V, 60Hz. 15A, Form 1S, Electro Mechanical	1,200
383	Meter, KWH, 1 Phase, Class 20, 240V, 2W, Form 3S, Electronic, Complete w/ TOU and Load Profiling	17,000
384	Meter, KWH, 1 Phase, Class 20, 240V, 2W, Form 3S, Electronic, Demand, KVARH w/ TOU	9,500
385	Meter, KWH, 1 Phase, Class 200, 2W, 240V, 60Hz. 30A, Form 1S, Electro Mechanical	1,300
386	Meter, KWH, 1 Phase, Class 200, 2W, 240V, 60Hz. 30A, Form 1S, Electronic, Demand, KVARH w/ TOU	9,800
387	Meter, KWH, 1 Phase, Class 200, 2W, 240V, Form 1S, Socket Type, Electronic	1,700
388	Meter, KWH, 1 Phase, Class 200, 3W, 240V, Form 2S, Socket Type, Electronic	1,500
389	Meter, KWH, 3 Phase, Class 20, 120/480V, 3W, Form 45, Electronic, Energy & Demand w/ TOU	26,000
390	Meter, KWH, 3 Phase, Class 20, 120/480V, 4W, Electronic, Demand & Energy w/ TOU	14,000
391	Meter, KWH, 3 Phase, Class 20, 120/480V, 4W, Form 48A, Electronic, Demand, KVARH w/ TOU	13,000
392	Meter, KWH, 3 Phase, Class 20, 240V, 3W, Form 45A, Electronic, Complete w/ TOU & Load Profiling	36,000
393	Meter, KWH, 3 Phase, Class 20, 240V, 3W, Form 9S, Electronic, Demand & Energy	14,550
394	Meter, KWH, 3 Phase, Class 20, Electronic, Form 5A, 120/480V, Complete w/ TOU and Load Profiling	43,000
395	Meter, KWH, 3 Phase, Class 20, Electronic, Form 5A, 120/480V, Demand, KVARH w/ TOU	12,000
396	Meter, KWH, 3 Phase, Class 20, Electronic, 120/480V, 4W, Form 48A Complete w/ TOU & Load Profiling	48,000
397	Meter, KWH, 3 Phase, Class 200, 3W, 120/480V, 30A, Form 12S, Electronic, Energy & Demand w/ TOU.	18,000
398	Meter, KWH, 3 Phase, Class 200, 3W, 240V, 30A, Form 12S, Electronic, Complete with TOU & Load Profiling	26,000
399	Meter, KWH, 3 Phase, Class 200, 3W, 240V, 30A, Form 12S, Electronic, Demand, KVARH and w/ TOU.	9,500
400	Meter, KWH, 3 Phase, Electronic, Form 48A, 120/480V, Electronic, Energy, KVARH, Demand w/ TOU	28,000
401	Nut, Eye, 5/8", Conventional, Hot Dip Galvanized	73
402	Nut, Eye, 3/4", Conventional, Hot Dip Galvanized	85
403	Nut, Lock, Mf Type, 3/8"	8
404	Nut, Lock, Mf Type, 1/2"	9
405	Nut, Lock, Mf Type, 5/8"	9
406	Nut, Lock, Mf Type, 3/4"	9
407	Nut, Thimble Eye, 5/8" Single Eye, Hot Dip Galvanized	76
408	Pin, Crossarm, Clamp Type, 1" Thread Dia. Hot Dip Galvanized	350
409	Pin, Crossarm, Long Shank, 1" Thread Dia., 20" long, Hot Dip Galvanized, Forged	160
410	Pin, Crossarm, Long Shank, 1" Thread Dia. Nylon Thread, 7-7/8" X 5/8" Shank, Hot Dip Galvanized	275
411	Pin, Crossarm, Steel, 5/8" X 10-3/4", Hot Dip Galvanized	120
412	Pin, Crossarm, Steel, 5/8" X 13-3/4", Hot Dip Galvanized	170
413	Pin, Crossarm, Steel, 3/4"x17"x1-3/8", 23KV, Nylon Thread, Hot Dip Galvanized	255
414	Pin, Pole Top, Channel, 1" Thread, 20" Long, Hot Dip Galvanized	168
415	Pin, Pole Top, Channel, 1" Thread, 1 3/8 X 25" Long, Hot Dip Galvanized	250
416	Pin, Pole Top, 1 3/8 X 25", 23KV	320
417	Pin, Steel, 5/8" x 10-3/4"	98
418	Pin, Steel, 1 3/8 x 14", 23KV	350
419	Plate, Guy	35
420	Plate, Pole Grounding, Butt Type, Hot Dip Galvanized	90
421	Plate, Reinforcing, Crossarm, 6" X 8"	145
422	Pole, Concrete, 25', Class 7A, 500 kgs. (Minimum Load Break)	6,500
423	Pole, Concrete, 30', Class 5, 1000 kgs. (Minimum Load Break)	9,800
424	Pole, Concrete, 30', Class 7A, 500 kgs. (Minimum Load Break)	8,500
425	Pole, Concrete, 35', Class 3, 1400 kgs. (Minimum Load Break)	15,950
426	Pole, Concrete, 35', Class 5, 1000 kgs. (Minimum Load Break)	12,600
427	Pole, Concrete, 35', Class 7A, 500 kgs. (Minimum Load Break)	10,650
428	Pole, Concrete, 40', Class 3, 1400 kgs. (Minimum Load Break)	16,000
429	Pole, Concrete, 40', Class 5, 1000 kgs. (Minimum Load Break)	15,350

Republic of the Philippines  
 NATIONAL ELECTRIFICATION ADMINISTRATION  
 Quezon City

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Date / Time: 24 Jul 15

Signature: *L. Rivo*

OFFICE OF THE NATIONAL ADMINISTRATIVE REGISTER  
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EQUIPMENT & MATERIAL PRICE INDEX 2015 (empi2015)

No.	DESCRIPTION	UNIT COST
430	Pole, Concrete, 40', Class 7A, 500 kgs. (Minimum Load Break)	12,780
431	Pole, Concrete, 45', Class 3, 1400 kgs. (Minimum Load Break)	20,500
432	Pole, Concrete, 45', Class 5, 1000 kgs. (Minimum Load Break)	18,000
433	Pole, Concrete, 50', Class 1, 2400 kgs. (Minimum Load Break)	31,400
434	Pole, Concrete, 50', Class 3, 1600 kgs. (Minimum Load Break)	29,600
435	Pole, Concrete, 50', Class 5, 1000 kgs. (Minimum Load Break)	26,550
436	Pole, Concrete, 55', Class 3, 1600 kgs. (Minimum Load Break)	34,890
437	Pole, Concrete, 55', Class 5, 1000 kgs. (Minimum Load Break)	32,450
438	Pole, Concrete, 60', Class 3, 1600 kgs. (Minimum Load Break)	38,630
439	Pole, Concrete, 60', Class 5, 1000 kgs. (Minimum Load Break)	34,550
440	Pole, Concrete, 65', Class 2, 1800 kgs. (Two Section) (Minimum Load Break)	85,845
441	Pole, Concrete, 65', Class 3, 1600 kgs. (Two Section) (Minimum Load Break)	83,350
442	Pole, Concrete, 70', Class 1, 2000 kgs. (Two Section) (Minimum Load Break)	112,235
443	Pole, Concrete, 75', Class 1, 2000 kgs. (Two Section) (Minimum Load Break)	120,450
444	Pole, Concrete, 80', Class 1, 2000 kgs. (Two Section) (Minimum Load Break)	131,000
445	Pole, Concrete, 90', Class 1, 2000 kgs. (Two Section) (Minimum Load Break)	173,680
446	Pole, Steel, 25', Bare-3.0mm, 86 Micron, 500 kgs (Minimum Load Break)	7,750
447	Pole, Steel, 30', Bare-3.0mm, 86 Micron, 500 kgs (Minimum Load Break)	11,250
448	Pole, Steel, 35', Bare-3.0mm, 86 Micron, 500 kgs (Minimum Load Break)	14,000
449	Pole, Steel, 40', Bare-3.0mm, 86 Micron, 500 kgs (Minimum Load Break)	19,150
450	Pole, Steel, 45', Bare-4.0mm, 86 Micron, 750 kgs (Minimum Load Break)	30,300
451	Pole, Steel, 50', Bare-4.0mm (Two Section), 86 Micron, 1200 kgs (Minimum Load Break)	55,450
452	Pole, Steel, 55', Bare-4.0mm (Two Section), 86 Micron, 1200 kgs (Minimum Load Break)	73,200
453	Pole, Steel, 60', Bare-4.0mm (Two Section), 86 Micron, 1200 kgs (Minimum Load Break)	83,400
454	Pole, Steel, 60', Bare-5.0mm (Two Section), 86 Micron, 1200 kgs (Minimum Load Break)	93,600
455	Pole, Steel, 65', Bare-4.0mm (Two Section), 86 Micron, 1200 kgs (Minimum Load Break)	93,800
456	Pole, Steel, 65', Bare-5.0mm (Two Section), 86 Micron, 1200 kgs (Minimum Load Break)	130,250
457	Pole, Steel, 70', Bare-4.0mm (Two Section), 86 Micron, 1200 kgs (Minimum Load Break)	110,100
458	Pole, Steel, 70', Bare-5.0mm (Two Section), 86 Micron, 1200 kgs (Minimum Load Break)	141,250
459	Pole, Steel, 75', Bare-4.0mm (Two Section), 86 Micron, 1200 kgs (Minimum Load Break)	127,200
460	Pole, Wood, 25', Australia, Class 3, 1360 kgs (Minimum Breaking Load)	12,360
461	Pole, Wood, 25', US, Class 1, 2040 kgs (Minimum Breaking Load)	13,100
462	Pole, Wood, 25', US, Class 2, 1678 kgs (Minimum Breaking Load)	12,200
463	Pole, Wood, 25', US, Class 3, 1360 kgs (Minimum Breaking Load)	10,500
464	Pole, Wood, 25', US, Class 4, 1088 kgs (Minimum Breaking Load)	9,500
465	Pole, Wood, 25', US, Class 5, 862 kgs (Minimum Breaking Load)	8,500
466	Pole, Wood, 25', US, Class 6, 680 kgs (Minimum Breaking Load)	8,100
467	Pole, Wood, 30', Australia, Class 3, 1360 kgs (Minimum Breaking Load)	18,100
468	Pole, Wood, 30', US, Class 1, 2040 kgs (Minimum Breaking Load)	16,900
469	Pole, Wood, 30', US, Class 2, 1678 kgs (Minimum Breaking Load)	15,800
470	Pole, Wood, 30', US, Class 3, 1360 kgs (Minimum Breaking Load)	15,500
471	Pole, Wood, 30', US, Class 4, 1088 kgs (Minimum Breaking Load)	13,500
472	Pole, Wood, 30', US, Class 5, 862 kgs (Minimum Breaking Load)	10,800
473	Pole, Wood, 30', US, Class 6, 680 kgs (Minimum Breaking Load)	9,300
474	Pole, Wood, 35', Australia, Class 3, 1360 kgs (Minimum Breaking Load)	23,250
475	Pole, Wood, 35', US, Class 3, 1360 kgs (Minimum Breaking Load)	18,500
476	Pole, Wood, 35', US, Class 4, 1088 kgs (Minimum Breaking Load)	15,200
477	Pole, Wood, 35', US, Class 5, 862 kgs (Minimum Breaking Load)	12,500
478	Pole, Wood, 35', US, Class 6, 680 kgs (Minimum Breaking Load)	9,600
479	Pole, Wood, 40', Australia, Class 3, 1360 kgs (Minimum Breaking Load)	30,900
480	Pole, Wood, 40', US, Class 3, 1360 kgs (Minimum Breaking Load)	25,500
481	Pole, Wood, 40', US, Class 4, 1088 kgs (Minimum Breaking Load)	19,500
482	Pole, Wood, 40', US, Class 5, 862 kgs (Minimum Breaking Load)	17,000
483	Pole, Wood, 45', Australia, Class 3, 1360 kgs (Minimum Breaking Load)	37,300
484	Pole, Wood, 45', US, Class 3, 1360 kgs (Minimum Breaking Load)	25,500
485	Pole, Wood, 45', US, Class 4, 1088 kgs (Minimum Breaking Load)	22,800
486	Pole, Wood, 45', US, Class 5, 862 kgs (Minimum Breaking Load)	21,500
487	Pole, Wood, 50', Australia, Class 2, 1678 kgs (Minimum Breaking Load)	77,650
488	Pole, Wood, 50', US, Class 2, 1678 kgs (Minimum Breaking Load)	65,500
489	Pole, Wood, 50', US, Class 3, 1360 kgs (Minimum Breaking Load)	55,700
490	Pole, Wood, 50', US, Class 4, 1088 kgs (Minimum Breaking Load)	43,000
491	Pole, Wood, 50', US, Class 5, 862 kgs (Minimum Breaking Load)	39,500
492	Pole, Wood, 55', Australia, Class 2, 1678 kgs (Minimum Breaking Load)	86,950
493	Pole, Wood, 55', US, Class 2, 1678 kgs (Minimum Breaking Load)	81,600
494	Pole, Wood, 55', US, Class 3, 1360 kgs (Minimum Breaking Load)	70,200
495	Pole, Wood, 55', US, Class 4, 1088 kgs (Minimum Breaking Load)	50,000
496	Pole, Wood, 60', Australia, Class 2, 1678 kgs (Minimum Breaking Load)	92,450
497	Pole, Wood, 60', US, Class 2, 1678 kgs (Minimum Breaking Load)	88,000
498	Pole, Wood, 60', US, Class 3, 1360 kgs (Minimum Breaking Load)	85,500
499	Pole, Wood, 65', Australia, Class 2, 1678 kgs (Minimum Breaking Load)	95,000
500	Pole, Wood, Local, 25', Class 5, 862 kgs (Minimum Load Break)	7,305
501	Pole, Wood, Local, 30', Class 5, 862 kgs (Minimum Load Break)	11,342
502	Pole, Wood, Local, 35', Class 5, 862 kgs (Minimum Load Break)	12,193

Republic of the Philippines  
 NATIONAL ELECTRIFICATION ADMINISTRATION  
 Quezón City

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Date / Time: 24 Jul 15

Name & Signature: Lei R. Rico

U.P. LAW CENTER  
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EQUIPMENT & MATERIAL PRICE INDEX 2015 (empi2015)

No.	DESCRIPTION	UNIT COST
503	Pole, Wood, Local, 40', Class 5, 862 kgs (Minimum Load Break)	17,491
504	Pole, Wood, Local, 45', Class 5, 862 kgs (Minimum Load Break)	18,387
505	Pole, Wood, Local, 50', Class 5, 862 kgs (Minimum Load Break)	26,843
506	Pole, Wood, Local, 55', Class 5, 862 kgs (Minimum Load Break)	33,197
507	Potential Transformer 15KV, 70:1	39,135
508	Potential Transformer 15KV, 8400/120V, 70:1	43,000
509	Potential Transformer 69KV, 350:1	198,000
510	Recloser, Vacuum, 1 Phase, 400A	400,000
511	Recloser, Vacuum, 3 Phase, 630A	700,000
512	Rod, Anchor, Single Eye, 5/8" X 8', Hot Dip Galvanized, Forged	450
513	Rod, Anchor, Single Eye, 3/4" X 8', Hot Dip Galvanized, Forged	550
514	Rod, Anchor, Thimble Eye, 1" X 10', Hot Dip Galvanized, Forged	620
515	Rod, Anchor, Threaded, Double Eye, 1" X 10', Hot Dip Galvanized, Forged	328
516	Rod, Anchor, Threaded, Double Eye, 3/4" X 8', Hot Dip Galvanized, Forged	550
517	Rod, Anchor, Threaded, Double Eye, 3/4" X 9', Hot Dip Galvanized, Forged	585
518	Rod, Anchor, Threaded, Double Eye, 3/4" X 10', Hot Dip Galvanized, Forged	650
519	Rod, Anchor, Threaded, Oval Eye, 3/4" X 8', Hot Dip Galvanized, Forged	520
520	Rod, Anchor, Threaded, Oval Eye, 3/4" X 9', Hot Dip Galvanized, Forged	570
521	Rod, Anchor, Threaded, Oval Eye, 3/4" X 10', Hot Dip Galvanized, Forged	640
522	Rod, Anchor, Threaded, Single Eye, 5/8" X 7', Hot Dip Galvanized, Forged	322
523	Rod, Anchor, Threaded, Single Eye, 3/4" X 8', Hot Dip Galvanized, Forged	504
524	Rod, Anchor, Threaded, Single Eye, 5/8" X 10', Hot Dip Galvanized	650
525	Rod, Armor, Preformed, #1/0 ACSR, Double Support	360
526	Rod, Armor, Preformed, #1/0 ACSR, Single Support	340
527	Rod, Armor, Preformed, #2 ACSR, Double Support	317
528	Rod, Armor, Preformed, #2 ACSR, Single Support	243
529	Rod, Armor, Preformed, #2/0 ACSR, Double Support	420
530	Rod, Armor, Preformed, #2/0 ACSR, Single Support	350
531	Rod, Armor, Preformed, #3/0 ACSR, Single Support	365
532	Rod, Armor, Preformed, #336 MCM, Double Support	850
533	Rod, Armor, Preformed, #336 MCM, Single Support	850
534	Rod, Armor, Preformed, #4/0 ACSR, Single Support	480
535	Rod, Ground Steel, Galvanized, 5/8" X 8', Hot Dip Galvanized	336
536	Rod, Ground Steel, Galvanized, 5/8" X 10', Hot Dip Galvanized	432
537	Rod, Tapping, Preformed, #2 ACSR	170
538	Shackle, Anchor, 5/8", Forged Steel, Hot Dip Galvanized	266
539	Spacer, Pipe, 3/4" X 1-1/2", Hot Dip Galvanized	6
540	Staple, Ground wire, 1/2" X 2"	128
541	Strap, Band-it, Steel, 1/2"	28
542	Switch, Air-break, 15KV	79,000
543	Switch, Disconnecting, 15KV, 200A	6,500
544	Switch, Disconnecting, 15KV, 600A	10,000
545	Switch, Disconnecting, 27KV	12,000
546	Transformer, Pole Type, Conventional, 5 KVA	35,450
547	Transformer, Pole Type, Conventional, 10 KVA	48,500
548	Transformer, Pole Type, Conventional, 15 KVA	58,600
549	Transformer, Pole Type, Conventional, 25 KVA	75,400
550	Transformer, Pole Type, Conventional, 37.5 KVA	89,450
551	Transformer, Pole Type, Conventional, 50 KVA	106,000
552	Transformer, Pole Type, Conventional, 75 KVA	132,650
553	Transformer, Pole Type, Conventional, 100 KVA	151,350
554	Transformer, Pole Type, Conventional, 167 KVA	215,200
555	Transformer, Pole Type, Conventional, Amorphous, 10 KVA	58,000
556	Transformer, Pole Type, Conventional, Amorphous, 15 KVA	69,000
557	Transformer, Pole Type, Conventional, Amorphous, 25 KVA	83,000
558	Transformer, Pole Type, Conventional, Amorphous, 37.5 KVA	102,500
559	Transformer, Pole Type, Conventional, Amorphous, 50 KVA	119,800
560	Transformer, Pole Type, Conventional, Amorphous, 75 KVA	161,750
561	Transformer, Pole Type, Conventional, Amorphous, 100 KVA	185,000
562	Transformer, Pole Type, CSP, 5 KVA	49,280
563	Transformer, Pole Type, CSP, 10 KVA	53,500
564	Transformer, Pole Type, CSP, 15 KVA	67,800
565	Transformer, Pole Type, CSP, 25 KVA	83,900
566	Transformer, Pole Type, CSP, 50 KVA	110,000
567	Washer, Curved, 2-1/2" X 2-1/2" X 3/16"	12
568	Washer, Curved, 3" X 3" X 1/4", 13/16	30
569	Washer, Curved, 4" X 4" X 1/4"	45
570	Washer, Curved, 4" X 4" X 1/2"	112
571	Washer, Round, 1-3/8" Diameter w/ 9/16" Dia. Hole	6
572	Washer, Round, 1 1/16" (Washer Round 1-3/4")	10
573	Washer, Square, Curved, 3" X 3" X 5/16" w/ 11/16" Dia. Hole	20
574	Washer, Square, Curved, 4" X 4" X 1/4" w/ 15/16" Dia. Hole	42
575	Washer, Square, Curved, 4" X 4" X 1/2" w/ 7/8" Dia. Hole	110

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EQUIPMENT & MATERIAL PRICE INDEX 2015 (empi2015)

No.	DESCRIPTION	UNIT COST
576	Washer, Square, Flat, 2-1/4" X 2-1/4" X 3/16"	14
577	Washer, Square, Flat, 4" X 4" X 3/16"	21
578	Washer, Square, Flat, 4" X 4" X 1/2"	85
579	Wire, Grounding, Aluminum Alloy, #4 AWG (Feet)	6
580	Wire, Grounding, Galvanized, 3 Strand, 5/16" Dia. (Feet)	20
581	Wire, Guy, Steel, 5/16", 7 Strand, High Strength (Feet)	15
582	Wire, Guy, Steel, 3/8", 7 Strand, High Strength (Feet)	20
583	Wire, Guy, Steel, 7/16", 7 Strand, High Strength (Feet)	45
584	Wire, Holder, Service, #22 X 2-1/2", Wood Screw	20
585	Wire, Tape, Armor, Aluminum Alloy, 0.5" X 0.3" (Feet)	9
586	Wire, Tie, Aluminum Alloy, Soft, #4 AWG (Feet)	12
587	Wire, Tie, Insulated, #4 mm (Meters)	55
588	3 Phase Portable Working Standard, KWH Meter & C.T Tester	1,300,000
589	3 Phase Portable Working Standard and Power Quality Analyzer	1,600,000
590	AC Hipot Tester, 100/120 HVT	1,500,000
591	Auto Portable Oil Tester, 60KV	650,000
592	Automated Insulation Power Factor Test	1,450,000
593	Body Belt Lineman, Size 9-10	9,910
594	Bolt Cutter 24"	5,000
595	Boom Truck, Digger Derrick, Japan	8,700,000
596	Boom Truck, w/ Bucket and Digger Derrick, USA	13,000,000
597	Chain Hoist, 2 Tons	19,869
598	Chain Saw 16'	74,000
599	Clamp Stick, Hot Tool	38,100
600	Clamp Tester	20,655
601	Climbers, Belt w/ Pole Strap	12,000
602	Climbers Complete Set ( Belt, Spike and Pole Strap)	30,000
603	Come Along, 4/0 ACSR	10,400
604	Come Along, 336 MCM	20,000
605	Crane, 3 tons, Brand New	2,500,000
606	Crane, 5 tons, Brand New	4,500,000
607	CTR, Current Transformer Tester	400,000
608	DC Hi-Pot Test Set	550,840
609	Die-electric Oil Tester	541,856
610	Digital Data Logger	485,000
611	Digital Earth Ground Resistance Tester	180,000
612	Digital Multimeter	49,137
613	Disconnect, Stick, Switch Head, 12'	14,000
614	Dissolved Gas Analyzer	2,300,000
615	DLRO, Low Resistance Tester	350,000
616	Earth Resistance Tester	111,570
617	Electrical Plier 9"	1,900
618	Fault Circuit Indicator	20,000
619	Galvanization Tester	80,000
620	Grounding Cluster, 3 Phase	130,000
621	Hole Digger, 7'	8,500
622	Holster	2,000
623	Hot Stick Telescopic, 35'	34,000
624	Hot Stick, Disconnect Type, 12'	15,000
625	Hydraulic Compression Tool and Die	105,000
626	Hydraulic Wedge Tool	20,000
627	Insulated, Aerial Work Platform, 15 meter, LV 35KV, ELF Type Truck, Japan	7,000,000
628	Insulated, Aerial Work Platform, 15 meter, LV 35KV, Forward Type Truck, Japan	8,000,000
629	Insulation Power Factor Tester, IPF, 12KV	5,500,000
630	Insulation Resistance Tester	66,225
631	Insulation Resistance Tester, 10KV	285,000
632	Insulation Resistance Tester, 15KV	335,000
633	Insulation Resistance Tester, 5KV	250,000
634	Ladder, Fiber Glass, 12'	8,000
635	Ladder, Fiber Glass, 24'	15,000
636	Leather Work Glove, Lineman Size 10	350
637	Leather Work Glove, Lineman Size 9	350
638	Lineman's Safety Shoes	2,000
639	Load Buster	16,000
640	Load Logger Test Set	450,000
641	Long Nose, Plier, 8"	1,900
642	Manual Compression Tool and Die	22,000
643	Manual, Crimping, Tool	25,000
644	MDP3 Distribution Profiler	600,000
645	Mechanical Compression Tool and Die	23,000
646	Meter Test Set	448,720
647	Pliers, Side Cutting, 8"	1,600
648	Portable Polyphase watt/var meter	300,000

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**EQUIPMENT & MATERIAL PRICE INDEX 2015 (empi2015)**

No.	DESCRIPTION	UNIT COST
649	Portable Watthour Meter Test Set	1,250,000
650	Power Quality Analyzer	550,000
651	Protective Relay Test	1,500,000
652	Ratchet, 0.5 Tons	9,000
653	Ratchet, 0.75 Tons	11,000
654	Ratchet, 1.5 Tons	12,000
655	Ratchet, Crimping, Tool	23,000
656	Relay and Current Transformer Tester	1,490,000
657	Rubber Glove, Protectors, 15KV	6,000
658	Rubber Glove, Protectors, 69KV	18,000
659	Safety Belt w/ Strap	12,000
660	Safety Cap	300
661	Safety Strap, Lineman	3,121
662	Secondary Rack w/ Spool Insulator 1 3/4, 3W	350
663	Secondary Rack, 2W	310
664	Secondary Rack, 3W	450
665	Semi Automatic Oil Tester, 60KV	295,000
666	Shotgun, Stick, 12'	20,000
667	Single Phase Relay Tester	850,000
668	Skinning Knife, Klein	1,200
669	Spike w/ Strap	20,000
670	Screw Driver, Flat	600
671	Screw Driver, Phillip	550
672	Switch Stick, Hot Tool	21,504
673	Thermal Scanner, Fluke TI32	380,000
674	Thermal Scanner, Fluke TI400	450,000
675	Thermal Scanner, Fluke CORFLEX	800,000
676	Thermal Scanner, TI55FT	1,100,000
677	Transformer Gin	36,960
678	Transformer Loss Tester	3,000,000
679	Transformer Turns Ratio Tester, TTR, Manual	285,000
680	Transformer Turns Ratio Tester, TTR, Digital	360,000
681	Ultra Sound Detector	1,200,000
682	Watthour Meter Test & Calibration System	3,385,000
683	Watthour Meter Test & Calibration System, 10 Position, 1 Phase	8,000,000
684	Wire, Grip, #2 to 4/0	15,000
685	Wrench Adjustable, 10"	2,200

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<b>PRICE INDEX 2015 for SUBSTATION</b>	
<b>MATERIAL DESCRIPTION</b>	<b>Unit Cost</b>
<b>POWER TRANSFORMERS</b>	
Power Transformer, 5/6.25 MVA, OFF-Load, 67/13.2 KV	7,099,400.00
Power Transformer, 5/6.25 MVA, ON-Load, 67/13.2 KV	8,750,000.00
Power Transformer, 10/12.5 MVA, OFF-Load, 67/13.2 KV	11,700,000.00
Power Transformer, 10/12.5 MVA, OFF-Load, 67/13.2 KV, origin: Europe	13,500,000.00
Power Transformer, 10/12.5 MVA, ON-Load, 67/13.2 KV	13,800,000.00
Power Transformer, 15/18.5 MVA, OFF-Load, 67/13.2 KV	13,500,000.00
Power Transformer, 20/25 MVA, OFF-Load, 67/13.2 KV	15,800,000.00
Power Transformer, 20/25 MVA, OFF-Load, 67/13.2 KV, origin: Europe	18,800,000.00
<b>SUBSTATION STEEL STRUCTURES</b>	
69 KV Incoming Structures	800,000.00
Power Circuit Breaker Structures	
Potential Transformer Structures	
Current Transformer Structures	
Post Insulator Structures	
Surge Arresters Structures	
Disconnect Switch Structures	
Battery Racks	
Ground Mesh for Disconnect Switch	
<b>69KV PROTECTION AND METERING EQUIPMENT</b>	
Power Circuit Breaker , SF6, Live Tank	1,600,000.00
Power Circuit Breaker, SF6, Dead Tank, 3BCT's w/ relays	2,700,000.00
Power Circuit Breaker, SF6, Dead Tank, 6BCT's w/ relays	3,200,000.00
Current Transformer	275,000.00
Potential Transformer	295,000.00
Post Insulator, 350KV BIL	25,000.00
Surge Arresters, 60KV, 48KV, Class 3	55,000.00
Disconnect Switch, Double Side Break type	500,000.00

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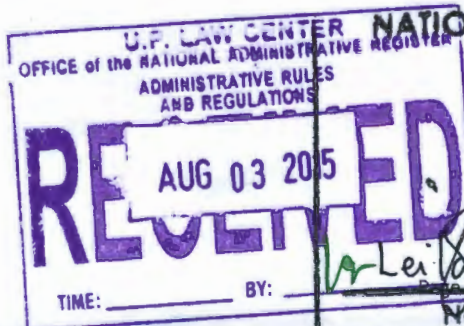
## PRICE INDEX 2015 for SUBSTATION

MATERIAL DESCRIPTION	Unit Cost
<b>15KV PROTECTION EQUIPMENT</b>	
Circuit Breaker, Type Tested, Modular, Vacuum GIS, 630A, MVSG with Complete Accessories.	1,200,000.00
Circuit Breaker, Type Tested, Modular, Vacuum GIS, 1250A, MVSG with Complete Accessories.	1,400,000.00
Circuit Breaker, Type Tested, Vacuum AIS, 630A, MVSG with Complete Accessories. Draw Out Type	1,000,000.00
Circuit Breaker, Type Tested, Vacuum AIS, 1250A, MVSG, with Complete Accessories. Draw Out Type	1,200,000.00
Fused Protection & Metering Cubicle	600,000.00
Circuit Breaker, Outdoor, Vacuum, Dead Tank, Stand Alone	2,020,000.00
Vacuum Circuit Recloser, 630A	700,000.00
Current Transformer, 15KV	60,000.00
Potential Transformer, 15KV	72,000.00
Surge Arrester, 12KV, 10KV, Class 3	27,000.00
Disconnect Switch, 1200A, Single Pole	15,000.00
<b>69KV/15KV METERING, CONTROL AND PROTECTION PANEL</b>	
69/15KV Protection, Control and Metering Panel with Protection Relays & Meters for 1 incoming & 4 feeders	1,800,000.00
Accessories: 5 Pcs Multifunction Meter, 1 Differential Relay, Annunciators	
Overcurrent & Ground Fault Relays, Multi Function Protective Relay & High Protective Relay, GSM/GPRS Modem, Alarm & w/ Arc Flash Protection	
<b>STATION BATTERY, BATTERY CHARGER</b>	
Battery Bank, 125VDC	320,000.00
Battery Charger, 125VDC, 30A, Single Phase	350,000.00
<b>SERVICE STATION DISTRIBUTION TRANSFORMER</b>	
Distribution Transformer, 1 Phase, 25 KVA	77,380.00
Concrete Poles, 30 ft.	10,300.00
Cutout and Arrester Combination	4,674.00
Transformer Hanger	1,500.00
<b>15KV POWER CABLE AND TERMINATION KIT</b>	
15KV XLPE Power Cable, 240 sq.mm ( Meters )	2,500.00
15KV XLPE Power Cable, 95 sq.mm ( Meters )	1,000.00
15KV Outdoor Heat Shrink Termination Kits, sets	15,000.00
15KV Outdoor Termination Kits, 240 sq.mm, sets	14,000.00
15KV Outdoor Termination Kits, 95 sq.mm, sets	13,000.00

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**PRICE INDEX 2015 for SUBSTATION**

MATERIAL DESCRIPTION	Unit Cost
<b>CIVIL AND OTHER ELECTRICAL WORKS</b>	
Construction of Perimeter Fence, 1000 sq. meter	500,000.00
Equipment Foundation & Take Off Pedestal	700,000.00
Feeder Takeoff and Incoming 69 Kv Overhead Lines	700,000.00
Site Development/Grading/Gravelling/Perimeter Lights	350,000.00
Power House, Control & Switchgear Room	750,000.00
Wires, Hardware and Accessories	200,000.00
Supervision, Installation of Electrical & Metering Equipment	800,000.00
Complete Grounding System, 300 sq. meter	700,000.00
Testing and Commissioning	250,000.00

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