



SUPPLEMENTAL / BID BULLETIN (SBB) ADDENDUM NO. 01

This SBB Addendum No. 01 dated May 14, 2019 for the Project: **Upgrading of 3-Phase Line Distribution Power System of KSU Bulanao Campus- Phase I** is issued to clarify, modify or amend items in the Bidding Documents. Accordingly, this shall form an integral part of said Documents.

PARTICULARS				CLARIFICATION / AMENDMENT
On Item No. XI-Scope of Works on the Terms of Reference under Section VI-Specifications, pages 69-70 of the bid document, the following in highlighted yellow color are the revisions/modifications as result of Pre-bid Conference conducted on May 8, 2019 @ 10am:				
ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
100 (3)a1	CLEARING AND GRUBBING (Individual trimming of Trees)	EACH	20.00	clearing and lay outing of: Trimming of all tree trunks that can obstruct the lines
B-2	PROJECT BILLBOARD	LS	1.00	specs are as follows: 1/4"x4"x8' marine plywood good lumber tarpaulin (4'x8') CWN (assorted)
1100	Electrical Works	lot	1.00	Specs are as follows: All materials shall be in accordance with the standards of the following: -IEC, IEEE, PEC, NETA, NEC, Distribution Code Covers items specified in the plan Scope of works includes the following: -Installation of 3- 40' and 6-35' steel poles -Assembly of 2-C1, 2-C4-1, 2-C7 & 11-J3 top pole line hardware -dismantling of 1-50KVA transformer beside gymnasium; and transferring and installation to the admin building -Installation of 3-75KVA transformer and accessories as located at the existing Pole beside gymnasium; 1-75KVA transformer located at library building or as specified in the plan. - transfer of the existing 3 phase transformer to pole # 2 - assembly of M2-11A grounding assembly - installation of 9-E3-2 or E2-2T guy - installation of 9-F2-1 anchor assembly - installation of 6-M5-6, 6-M5-1, and 6-M5-10 miscellaneous accessories -Pay outting Payoff of Bare, #1/0, AWG, ACSR and INSULATED, #1/0, AWG, COPPER ACSR -Testing of all wiring insulation of insulated copper wires, and testing of all transformers supplied passing all local and national provisions specially requirement of the local electric cooperative (KAELCO). -Provide brochures, catalogues and test reports of all transformers, cables, steel poles and line hardware supplied

Name of the Procuring Entity : KALINGA STATE UNIVERSITY
 Project Reference Number : IB_CIVILWORKS_2019-04-046
 Name of the Project : UPGRADING OF 3-PHASE LINE DISTRIBUTION POWER SYSTEM OF KSU BULANAO CAMPUS- PHASE I
 Location of the Project : KSU MAIN CAMPUS, NATIONAL HIGHWAY, PUROK 6, BULANAO, TABUK CITY, KALINGA
 End-User Unit : GENERAL SERVICES OFFICE
 Implementing Unit : INFRASTRUCTURE OFFICE
 Standard Form Number : SF-INFR-34



ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
60				LINE HARDWARES
61				
62			Pole #	35'
63			01	
64				Materials
65				Description
66			a.	Top Pole
67				Insulator, Pin type, Porcelain, ANSI, Class 55-5
68				Pin, Pole Top, Channel, 1" Thread, 20" long
69				Bolt, machine, 5/8" x Required length
70				Washer, Square, Flat, 2-1/4", x 3/16", 13/16" diameter hole
71				Pin, Crossarm, Steel, 5/8"x 10-3/4"
72				Brace, Crossarm, 28", Steel
73				Bolt carriage 3/8" x 4-1/2"
74				Insulated single upset bolt x required bolt
75				Spring washer, 5/8"
76				Locknuts
77				35' steel pole
78			b.	Grounding (M2-11A)
79				Compression connector
80				Ground rod, steel galvanized, 10' long, 5/8" dia
81				Clamp, ground rod, tamper proof
82				Clip, ground wire
83				Staples, ground wire, 2"x1/2", gauge 8
84				Jumper, No. 4 AWG, aluminum alloy, stranded
85				Ground wire, No. 4 AWG, aluminum
86				Connector, split bolt type
87			Pole #	40'
88			02	
89				Materials
90				Description
91			a.	Top Pole (C4-1)
92				Washer, Square, Flat, 2-1/4", x 3/16", 13/16" diameter hole
93				Suspension insulator 6" (6-5 3/4" x 10")
94				5/8" eye bolt connector
95				5/8" eye nut
96				Shackle, anchor, forged steel, galvanized
97				Dead-end assembly, Primary
98				Dead-end assembly, Neutral
99				Locknuts
100				40' steel pole
101			b.	Grounding (M2-11A)
102				Compression connector
103				Ground rod, steel galvanized, 10' long, 5/8" dia
104				Clamp, ground rod, tamper proof
105				Clip, ground wire
106				Staples, ground wire, 2"x1/2", gauge 8
107				Jumper, No. 4 AWG, aluminum alloy, stranded
108				Ground wire, No. 4 AWG, aluminum
109				Connector, split bolt type
110			c.	Guy (2-E2-2T)
111				Single overhead guy through bolt type
112				Washer, curved, 3" sq. x 5/16 w/ 11/16 hole connectors
113				clamp, guy, 3-bolt, 6" heavy duty
114				3/8" guy strand
115				Nut, thimble eye, 5/8"
116				Bolt, thimble eye, 5/8"
117				Jumpers, #6 SD or equivalent
118				Locknut, 5/8"
119			d.	Anchor (2-F2-1)/(2FP-1)
120				Helix hub, single blade
				Anchor shaft
				Extension rod, 3'-6"

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ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
121				
122			e.	Miscellaneous (3-M5A)
123				Bolt, Machine, 5/8ft x Required Length
124				Washer, 2 1/4" Square With 11/16. Hole
125				Insulator, Post, Clamp Type, 1 3/4. Stud
126				Bracket, Pole Top
127				Locknut, 5/8"
128				
129			Pole # 03	35'
130				Materials
131				Description
132			a.1	Top Pole (C1)
133				Insulator, Pin type, Porcelain, ANSI, Class 55-5
134				Pin, Pole Top, Channel, 1" Thread, 20" long
135				Bolt, machine, 5/8" x Required length
136				Washer, Square, Flat, 2-1/4", x 3/16", 13/16" diameter hole
137				Pin, Crossarm, Steel, 5/8"x 10-3/4"
138				Brace, Crossarm, 28", Steel
139				Bolt carriage 3/8" x 4-1/2"
140				Insulated single upset bolt x required bolt
141				Spring washer, 5/8"
142				Locknuts
143				35' steel pole
144			a.2	Top Pole (2-J3)
145				3-Wire Rack, with bolts
146				Bolt, machine, 5/8" x 9"
147				Washer, Square, Flat, 2-1/4", x 2-1/4", 3/16", 13/16" diameter hole
148				Locknut, 5/8"
149			b.	Grounding (M2-11A)
150				Compression connector
151				Ground rod, steel galvanized, 10' long, 5/8" dia
152				Clamp, ground rod, tamper proof
153				Clip, ground wire
154				Staples, ground wire, 2"x1/2", gauge 8
155				Jumper, No. 4 AWG, aluminum alloy, stranded
156				Ground wire, No. 4 AWG, aluminum
157				Connector, split bolt type
158			c.	Guy (1-E2-2T)
159				Single overhead guy through bolt type
160				Washer, curved, 3" sq. x 5/16 w/ 11/16 hole connectors
161				clamp, guy, 3-bolt, 6" heavy duty
162				3/8" guy strand
163				Nut, thimble eye, 5/8"
164				Bolt, thimble eye, 5/8"
165				Jumpers, #6 SD or equiv
166				Locknut, 5/8"
167			d.	Anchor (1-F2-1)/(1-FP-1)
168				Helix hub, single blade
169				Anchor shaft
170				Extension rod, 3'-6"
171				
172			Pole # 5	35'
173				Materials
174				Description
175			a.2	Top Pole (J3)
176				3-Wire Rack, with bolts
177				Bolt, machine, 5/8" x 9"
178				Washer, Square, Flat, 2-1/4", x 2-1/4", 3/16", 13/16" diameter hole
179				Locknut, 5/8"
180				35' steel pole
181				

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ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
182				
183			Pole # 7	35'
184				
185				Materials
186				Description
187			a.2	Top Pole (2-J3)
188				3-Wire Rack, with bolts
189				Bolt, machine, 5/8" x 9"
190				Washer, Square, Flat, 2-1/4", x 2-1/4", 3/16", 13/16" diameter hole
191				Locknut, 5/8"
192				35' steel pole
193			b.	Guy (2-E2-2T)
194				Single overhead guy through bolt type
195				Washer, curved, 3" sq. x 5/16 w/ 11/16 hole connectors
196				clamp, guy, 3-bolt, 6" heavy duty
197				3/8" guy strand
198				Nut, thimble eye, 5/8"
199				Bolt, thimble eye, 5/8"
200				Jumpers, #6 SD or equivalent
201				Locknut, 5/8"
202			d.	Anchor (2-F2-1)/(2FP-1)
203				Helix hub, single blade
204				Anchor shaft
205				Extension rod, 3'-6"
206				
207			Pole # 8	40'
208				
209				Materials
210				Description
211			a.1	Top Pole
212				Insulator, Pin type, Porcelain, ANSI, Class 55-5
213				Pin, Pole Top, Channel, 1" Thread, 20" long
214				Bolt, machine, 5/8" x Required length
215				Washer, Square, Flat, 2-1/4", x 3/16", 13/16" diameter hole
216				Pin, Crossarm, Steel, 5/8"x 10-3/4"
217				Brace, Crossarm, 28", Steel
218				Bolt carriage 3/8" x 4-1/2"
219				Insulated single upset bolt x required bolt
220				Spring washer, 5/8"
221				Locknuts
222				40' steel pole
223				
224			a.2	Top Pole (J3)
225				3-Wire Rack, with bolts
226				Bolt, machine, 5/8" x 9"
227				Washer, Square, Flat, 2-1/4", x 2-1/4", 3/16", 13/16" diameter hole
228				Locknut, 5/8"
229				
230			b.	Transformer
231				75KVA SINGLE PHASE TRANSFORMER
232				
233			c.	Miscellaneous
234				Bolt, Machine, 5/8" x Required Length
235				Connectors
236				Lightning Arrester
237				Fused Cutout
238				Jumpers, #6 S.D. Copper or Equiv.
239				Washer, Spring, 5/8"
240				Bracket, Transformer
241				Bracket, Combination Cutout and Arrester
242				

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ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
243			Pole	
244			# 8A	35'
245				Materials
246				Description
247			a.2	Top Pole (J3)
248				3-Wire Rack, with bolts
249				Bolt, machine, 5/8" x 9"
250				Washer, Square, Flat, 2-1/4", x 2-1/4", 3/16", 13/16" diameter hole
251				Locknut, 5/8"
252				35' steel pole
253			b.	Guy (2-E2-2T)
254				Single overhead guy through bolt type
255				Washer, curved, 3" sq. x 5/16 w/ 11/16 hole connectors
256				clamp, guy, 3-bolt, 6" heavy duty
257				3/8" guy strand
258				Nut, thimble eye, 5/8"
259				Bolt, thimble eye, 5/8"
260				Jumpers, #6 SD or equivalent
261				Locknut, 5/8"
262			c.	Anchor (1-F2-1)/(1FP-1)
263				Helix hub, single blade
264				Anchor shaft
265				Extension rod, 3'-6"
266				
267				
268			Pole	
269			# 04	40'
270				Materials
271				Description
272			a.1	Top Pole
273				Insulator, Pin type, Porcelain, ANSI, Class 55-5
274				Pin, Pole Top, Channel, 1" Thread, 20" long
275				Bolt, machine, 5/8" x Required length
276				Washer, Square, Flat, 2-1/4", x 3/16", 13/16" diameter hole
277				Pin, Crossarm, Steel, 5/8"x 10-3/4"
278				Brace, Crossarm, 28", Steel
279				Bolt carriage 3/8" x 4-1/2"
280				Insulated single upset bolt x required bolt
281				Spring washer, 5/8"
282				Locknuts
283				40' steel pole
284			a.2	Top Pole (J3)
285				3-Wire Rack, with bolts
286				Bolt, machine, 5/8" x 9"
287				Washer, Square, Flat, 2-1/4", x 2-1/4", 3/16", 13/16" diameter hole
288				Locknut, 5/8"
289				35' steel pole
290			b.	Transformer & metering accessories
291				75KVA SINGLE PHASE TRANSFORMER
292				Screw, steel, 1/2" x 4"
293				Connectors
294				RSC Conduit, 1-1/4"
295				Condulet, type LB
296				Conduit, straps
297				Transformer secondary bracket
298				Meter box, meter and test block
299				Transformer, current
300				Service head
301				Wire, #12 insulated
302				Wire, #14 insulated
303				

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304				
305			c.	Grounding (M2-11A)
306				Compression connector
307				Ground rod, steel galvanized, 10' long, 5/8" dia
308				Clamp, ground rod, tamper proof
309				Clip, ground wire
310				Staples, ground wire, 2"x1/2", gauge 8
311				Jumper, No. 4 AWG, aluminum alloy, stranded
312				Ground wire, No. 4 AWG, aluminum
313				Connector, split bolt type
314			d.	Miscellaneous (3-M5-6, 6-M5-10)
315				M5-6
316				Connectors
317				Lightning Arrester
318				Jumpers And Leads
319				M5-10
320				Connectors
321				Jumpers and Leads
322				Cutout and Arrester Combination
323				
324			Pole # 09	40'
325				Materials
326				Description
327			a.	Top Pole (C4-1)
328				Washer, Square, Flat, 2-1/4", x 3/16", 13/16" diameter hole
329				Suspension insulator 6" (6-5 3/4" x 10")
330				5/8" eye bolt connector
331				5/8" eye nut
332				Shackle, anchor, forged steel, galvanized
333				Dead-end assembly, Primary
334				Dead-end assembly, Neutral
335				Locknuts
336				40' steel pole
337			b.	Grounding (M2-11A)
338				Compression connector
339				Ground rod, steel galvanized, 10' long, 5/8" dia
340				Clamp, ground rod, tamper proof
341				Clip, ground wire
342				Staples, ground wire, 2"x1/2", gauge 8
343				Jumper, No. 4 AWG, aluminum alloy, stranded
344				Ground wire, No. 4 AWG, aluminum
345				Connector, split bolt type
346			c.	Guy (2-E2-2T)
347				Single overhead guy through bolt type
348				Washer, curved, 3" sq. x 5/16 w/ 11/16 hole connectors
349				clamp, guy, 3-bolt, 6" heavy duty
350				3/8" guy strand
351				Nut, thimble eye, 5/8"
352				Bolt, thimble eye, 5/8"
353				Jumpers, #6 SD or equivalent
354				Locknut, 5/8"
355			d.	Anchor (2-F2-1)/(2FP-1)
356				Helix hub, single blade
357				Anchor shaft
358				Extension rod, 3'-6"
359			e.	Miscellaneous (3-M5A)
360				Bolt, Machine, 5/8ft x Required Length
361				Washer, 2 1/4" Square With 11/16. Hole
362				Insulator, Post, Clamp Type, 1 3/4. Stud
363				Bracket, Pole Top
364				Locknut, 5/8"

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ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
365			Pole	
366			# 10	40'
367				Materials
368				Description
369			a.1	Top Pole
370				Insulator, Pin type, Porcelain, ANSI, Class 55-5
371				Pin, Pole Top, Channel, 1" Thread, 20" long
372				Bolt, machine, 5/8" x Required length
373				Washer, Square, Flat, 2-1/4", x 3/16", 13/16" diameter hole
374				Pin, Crossarm, Steel, 5/8"x 10-3/4"
375				Brace, Crossarm, 28", Steel
376				Bolt carriage 3/8" x 4-1/2"
377				Insulated single upset bolt x required bolt
378				Spring washer, 5/8"
379				Locknuts
380				40' steel pole
381			a.2	Top Pole (J3)
382				3-Wire Rack, with bolts
383				Bolt, machine, 5/8" x 9"
384				Washer, Square, Flat, 2-1/4", x 2-1/4", 3/16", 13/16" diameter hole
385				Locknut, 5/8"
386				
387			b.	Transformer
388				25KVA SINGLE PHASE TRANSFORMER
389			c.	Grounding (M2-11A)
390				Compression connector
391				Ground rod, steel galvanized, 10' long, 5/8" dia
392				Clamp, ground rod, tamper proof
393				Clip, ground wire
394				Staples, ground wire, 2"x1/2", gauge 8
395				Jumper, No. 4 AWG, aluminum alloy, stranded
396				Ground wire, No. 4 AWG, aluminum
397				Connector, split bolt type
398			d.	Miscellaneous
399				Bolt, Machine, 5/8" x Required Length
400				Connectors
401				Lightning Arrester
402				Fused Cutout
403				Jumpers, #6 S.D. Copper or Equiv.
404				Washer, Spring, 5/8"
405				Bracket, Transformer
406				Bracket, Combination Cutout and Arrester
407			Pole	
408			# 12	35'
409				Materials
410				Description
411			a.2	Top Pole (2-J3)
412				3-Wire Rack, with bolts
413				Bolt, machine, 5/8" x 9"
414				Washer, Square, Flat, 2-1/4", x 2-1/4", 3/16", 13/16" diameter hole
415				Locknut, 5/8"
416				35' steel pole
417			b.	Guy (2-E2-2T)
418				Single overhead guy through bolt type
419				Washer, curved, 3" sq. x 5/16 w/ 11/16 hole connectors
420				clamp, guy, 3-bolt, 6" heavy duty
421				3/8" guy strand
422				Nut, thimble eye, 5/8"
423				Bolt, thimble eye, 5/8"
424				Jumpers, #6 SD or equivalent
				Locknut, 5/8"

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ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS	
425			d.	Anchor (2-F2-1)/(2FP-1)	
426				Helix hub, single blade	
427				Anchor shaft	
428				Extension rod, 3'-6"	
429			Pole # 13	35'	
430				Materials	
431			a.1	Description	
432				Top Pole	
433				Insulator, Pin type, Porcelain, ANSI, Class 55-5	
434				Pin, Pole Top, Channel, 1" Thread, 20" long	
435				Bolt, machine, 5/8" x Required length	
436				Washer, Square, Flat, 2-1/4", x 3/16", 13/16" diameter hole	
437				Pin, Crossarm, Steel, 5/8"x 10-3/4"	
438				Brace, Crossarm, 28", Steel	
439				Bolt carriage 3/8" x 4-1/2"	
440				Insulated single upset bolt x required bolt	
441				Spring washer, 5/8"	
442				Locknuts	
443				35' steel pole	
444			a.2	Top Pole (J3)	
445				3-Wire Rack, with bolts	
446				Bolt, machine, 5/8" x 9"	
447				Washer, Square, Flat, 2-1/4", x 2-1/4", 3/16", 13/16" diameter hole	
448				Locknut, 5/8"	
449			c.	Miscellaneous	
450				Bolt, Machine, 5/8" x Required Length	
451				Connectors	
452				Lightning Arrester	
453				Fused Cutout	
454				Jumpers, #6 S.D. Copper or Equiv.	
455				Washer, Spring, 5/8"	
456				Bracket, Transformer	
457				Bracket, Combination Cutout and Arrester	
458				CONDUCTORS	
459				Bare, #1/0, AWG, ACSR	
460				INSULATED, 2/0, AWG, ACSR	
461	B.7	OCCUPATIONAL	lot	1.00	Contractor must provide the following for its workers during
462		SAFETY AND			the duration of the project until project completion:
463		HEALTH PROGRAM			safety gloves
464					safety shoes
465					safety helmets
466					caution tapes
467					Safety signages
468					Contractor also must have a safety officer, and a first aider
469					to be deployed at site specially during critical activities

For guidance and information of all concerned.


 EDNA P. YUMOL, CPA, PhD
 BAC Chairman

Date Issued: May 14, 2019

Copy furnished: Prospective Bidders