

ELECTRIC POWER CORPORATION

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Apia
Samoa



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5th November 2020

To: BIDDERS



Subject: SAM EPC 01/2020 – EPC DISTRIBUTION NETWORK MATERIALS.


Addendum No. 3

No	Question/ Query	Date Issued	EPC Responses, Clarification and Changes	Addendum No
1	Lot 4 - Item 1.1 Confirm if material is HTV Silicone and not HDPE	5 th November 2020	Yes, it is HTV Silicone	3
2	Lot 4 - Item 1.14 Confirm if these are heat shrink or cold applied end caps	5 th November 2020	Heat Shrinks, but cold applied or push in caps are acceptable just as long as in fits the cable size	3
3	Lot 4 - Item 1.16 Please advise if we can offer Guy Screw anchor as well	5 th November 2020	Not Accepted	3
4	Lot 4 - Item 2.1 Confirm if this is copper to copper connection. If yes, we would recommend copper connector	5 th November 2020	This is used for Copper to Copper, Aluminum to Aluminum, Aluminum to Copper and Vice Versa	3
5	Lot 4 - Item 2.2 Confirm if this is copper to copper connection. If yes, we would recommend copper connector	5 th November 2020	This is used for Copper to Copper, Aluminum to Aluminum, Aluminum to Copper and Vice Versa	3

6	Lot 4 - Item 2.3 Confirm if this is copper to copper connection. If yes, we would recommend copper connector	5 th November 2020	This is used for Copper to Copper, Aluminum to Aluminum, Aluminum to Copper and Vice Versa	3
7	Lot 4 - Item 3.2 Please specify the binding wire diameter	5 th November 2020	This is Copper Lug – 70mm ² . Question is unclear	3
8	Lot 4 - Item 3.3 Please specify the binding wire diameter	5 th November 2020	This is Copper Lug – 95mm ² . Question is unclear	3
9	Lot 6 - Item 1.4 Please confirm if the clamp is required for 2 x (6 – 35) only or up to 4 x (4 – 35)	5 th November 2020	Required for 2 x (6 – 35mm ²) only	3
10	Do you have any specs for the top and bottom diameter of the poles? Please advise	5 th November 2020	Poles strength are specified; thus, the diameters are according to specified strength.	3
11	Referring to Lot 7 for Wooden Post – are you specifying any species of timber for the Hardwoods and Softwoods	5 th November 2020	No specific species specified, only type of woods such as Hard and Soft with Strength Grade. For Hardwood should be strength group 1 – 2. For Softwood should be strength group 4 – 5.	3
12	Referring to Lot 10 for Galvanized Bolts – can you assist with the Head Type. Hex head or Cup Head	5 th November 2020	Hex Type	3
13	Please confirm the quantity listed in the tender is the 2-year total quantity or is it yearly quantity?	5 th November 2020	2 years total quantity with ¼ to be supplied in every 6 months	3
14	Does EPC have a preference for the Currency they wish us to submit our offer in? We can offer either in USD or AUD	5 th November 2020	Other currencies are accepted just as long as its Free Convertible Currency as in the Tender Document. USD and AUD are both acceptable.	3
15	Is there a detailed technical specification available for the cable items? WE are familiar with all the cable types required on this tender but wish to confirm if there are special requirements that EPC need and what drum length that EPC prefer us to offer.	5 th November 2020	Refer to attachment.	3

14	Please confirm the "TPS Twin Cable" required in Lot 1, Overhead Conductors, Schedule 1, Item 1.7 is 2 core (2C) twin TPS or 2 core and earth (2C&E) TPS? We have offered 2C&E several time previously in the past but the Tender Document is stating "2 core twin" and we wish to conform the cable type required so we can offer the correct cable.	5 th November 2020	TPS Twin Cable – Requirement is for 2C & E.	3
15	Please confirm if electronic submissions will be accepted, with hard copies to follow for this tender.	5 th November 2020	Apologies, Hard Copies Only	3
16	Can you please advise if you have drawings which indicate the holes required for the crossarms (Hardwood and Fiberglass)	5 th November 2020	Hardwood are not specified to be drilled	3
17	Cable Construction: What sheathing material they require and SCW Earth Fault current for these cables	5 th November 2020	Refer to attachment	3
18	Lot 4: Item 1.1 – Item 1.3 Are these Clamp or Tie Top?	5 th November 2020	Tie Top	3
19	Lot 4: Item 1.4 – Item 1.5 Are these Tounge and Clevis or Ball and Socket?	5 th November 2020	Clevis	3
20	Lot 4: Item 1.6 What material? Porcelain, HDPE or Polymer?	5 th November 2020	Polymer	3
21	Lot 4: Item 1.7 What length is required?	5 th November 2020	244mm	3
22	Lot 4: Item 1.8 Are standoff insulators required or are these with Surge Arrestors?	5 th November 2020	With Surge Arrestors	3
23	Lot 4: Item 1.9 Please advise dimensions	5 th November 2020	Dimensions are specified in the Tender Document Dimensions: 913 x 40 x 6 Holes – Distance: 2 x M18 x 863mm apart	3

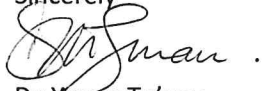
24	Lot 4: Item 1.10 Please provide more information	5 th November 2020	Find drawing attached  LV ABC Double Line Suspension Yoke.pdf	3
25	Lot 4: Item 1.14 Are these 2 cores or 4 Core?	5 th November 2020	Both	3
26	Lot 4: Item 1.16 Please provide more information	5 th November 2020	Find drawing attached  Stay Rod Assembly M24.pdf	3
27	Lot 4: Item 2.7 Please provide more detail of what is required	5 th November 2020	Question is unclear, all requirement is specified in the document.	3
28	Lot 4: Item 4.1 Please provide more information	5 th November 2020	What information is needed?	3
29	Lot 4: Item 4.4 – Item 4.7 Please provide specification of what is required	5 th November 2020	Please specify information needed, as all is specified in the Tender Document unless there is a specific one needed.	3
30	Lot 6: Item 1.1 Please provide more information	5 th November 2020	Please specific exactly what is needed.	3
31	Lot 6: Item 1.3 How many fuses does this need to carry?	5 th November 2020	3 Fuses	3
32	Lot 9: Item 1.1 – Item 1.2 Please advise material required – All SS, part SS. Handle or Stick operated, side opening or vertical opening.	5 th November 2020	Top/Mid Pole Mount – Side Opening Stick Operated Part SS	3
33	Lot 11: Item 1.1 – Item 1.16 Please advise what tag type these are, NH, K07, L14 etc	5 th November 2020	NH	3
34	Lot 11: Item 3.1 – Item 3.20 Are these to fit 22/33kV Cutouts?	5 th November 2020	Yes	3

35	Please forward us the detailed technical spec for LOT 2 and advise what is the current fault rating.	5 th November 2020	Find attached Technical Spec	3
36	LOT 4: Item 1.3 – Item 1.4 Kindly advise their end fitting whether it is ball and socket or tongue or clevis or others	5 th November 2020	Clevis	3
37	LOT 4: Item 1.3 & Item 1.5 Kindly confirm if the specifications for both items are the same except for the load	5 th November 2020	Apologies, correction for Item 1.5 Polymer Strain Insulator – 22kV Creepage: 920mm Dry Arching Distance: 400mm Specified Tension Load: 70kN Lightning Flashover Impulse Voltage: 110kV (Wet) 145kV (Dry) End Fittings Shall be Galvanized Steel ISO 1461	3
38	Can you please provide drawings for Lot 4 Schedule 1 Items (Insulators)	5 th November 2020	Find attached drawings  Polymer Line Post Insulator 25kV.pdf	3
39	Lot 8: Schedule 1 Hardwood Cross Arms – Can you provide any specification for this?	5 th November 2020	Specifications are already provided, unless you have a specific requirement, please state.	3
40	Lot 5 Confirm the types of cable accessories, such as heat shrink or cold shrink etc. Provide the data sheets of the existing products you have	5 th November 2020	Requirement for Hybrid. Existing products used is Cell Pack Type.	3
41	Lot 11 Confirm the types of fuselinks such as RT/RS/NH etc. The materials of them (bronze or steel?) Provide the data sheets of the existing products you have	5 th November 2020	NH Types	3
42	Bid closing date	26 th Oct 2020	Bid closing date is rescheduled to Mon 25th January 2021 at 11am at the same location stated in the tender document,	2

43	Bid Price	01 st Oct 2020	Prices shall be quoted in CIF but NOT CIP as in the tender document.	1
44	Bid Closing Date	01 st Oct 2020	Bid closing date is rescheduled to Mon 9 th Nov 2020 at 11am at the same location stated in the tender document.	1

Please sign and return acknowledgement form.

Sincerely



Da Young Tu'uau
Distribution Electrical Engineer

ACKNOWLEDGEMENT FORM

Bid: SAM EPC01/2020– EPC DISTRIBUTION NETWORK MATERIALS


Bidder Name: _____

We confirm receiving this Addendum 2

Signed by: _____

Name of Authorized Person

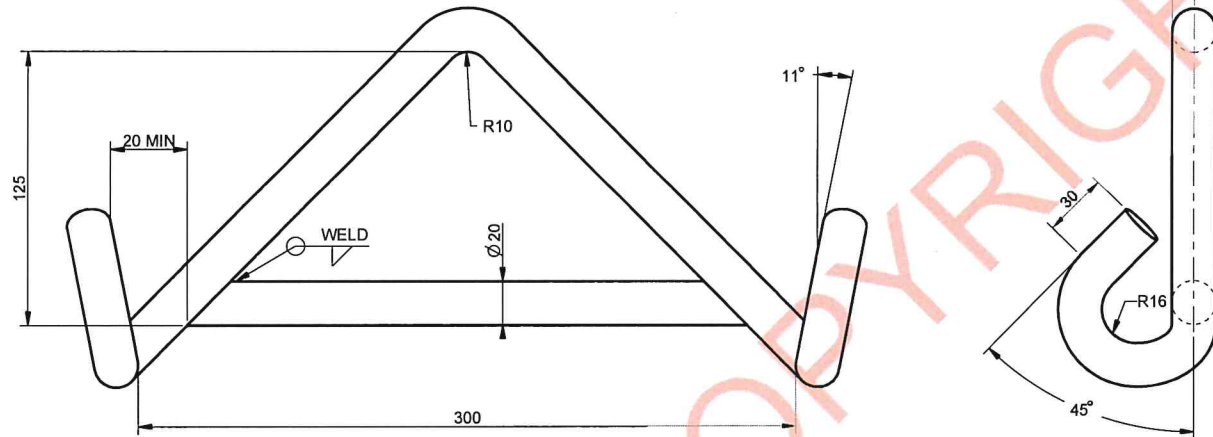
Bid No. SAMEPC 01/2020		3A. Goods Specifications Compliance Schedule		Sheet [1] of [15]
LOT NO		2	LOT DESCRIPTION	UNDERGROUND CONDUCTORS
Feature No.	Sub Item	Procuring entity's specification required	Bidders specification offered	Complies YES or NO?
1	1.1	XLPE MV Aluminium Cable – 22kV 1 Core x 95mm² Rated Voltage: 12.7/22 (24kV) Short Circuit Rating up to 10kA for 1 sec Impulse Voltage: 95kV Semi-Conductive Screen shall be extruded cross-linked compound Insulation: XLPE complying to AS/NZS 3808 Metallic Screen: Copper Wires <i>Cable Design & Ratings shall comply to Reference Standards</i> AS/NZS 1429.1 & AS/NZS 1125		
	1.2	XLPE MV Aluminium Cable – 22kV 1 Core x 185mm² Rated Voltage: 12.7/22 (24kV) Short Circuit Rating up to 10kA for 1 sec Impulse Voltage: 95kV Semi-Conductive Screen shall be extruded cross-linked compound Insulation: XLPE complying to AS/NZS 3808 Metallic Screen: Copper Wires <i>Cable Design & Ratings shall comply to Reference Standards</i> AS/NZS 1429.1 & AS/NZS 1125		
	1.3	XLPE MV Aluminium Cable – 33kV 1 Core x 185mm² Rated Voltage: 12.7/22 (24kV) Short Circuit Rating up to 10kA for 1 sec Impulse Voltage: 95kV Semi-Conductive Screen shall be extruded cross-linked compound Insulation: XLPE complying to AS/NZS 3808 Metallic Screen: Copper Wires <i>Cable Design & Ratings shall comply to Reference Standards</i> AS/NZS 1429.1 & AS/NZS 1125		



PRODUCT DRAWING

UNRESTRICTED RELEASE

EPC ITEM NUMBER



NOTES

1. MATERIAL: MILD STEEL GRADE 250/ ISO CLASS 4.6
2. FINISH: HOT DIP GALVANISED
3. YOKES SHALL CONFORM TO REQUIREMENTS OF AS 1154.1
MINIMUM FAILING LOAD: 24kN
4. GALVANISING TO BE COMPLY WITH AS/NZS 4680:2006
MINIMUM AVERAGE ZINC COATING MASS = 600mg/m²
5. TYPE TEST REQUIRED AND TEST REPORT TO BE SUBMITTED

B	05.09.17	SM	RP	IH	5972	1. ADDED EPC ITEM NUMBER TABLE
A	27.07.17	RP	AT	AT	5950	1. NEW DRAWING ISSUE
REV	REV DATE	DRWN	CHKD	APVD	CHANGE NUMBER	DESCRIPTION

UNITS
MILLIMETERS
DO NOT SCALE
THIRD ANGLE PROJECTION

TOLERANCES
UNLESS NOTED
x ± 1
x.x ± 0.4

QUALITY PLAN

QTY.	LABEL	CRITICAL DIMENSION	VISUAL INSPECTION
0	C		
0	V		

DATE DRAWN 07.06.17

DRAWN BY RP

SPECIFICATION LPH-IBYB

DRAWING NUMBER 30739

SCALE NTS

SHEET NO 1 OF 1

ORIGIN

REV B



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PRODUCTION DRAWING TITLE
LVABC DOUBLE SUSPENSION YOKES
24kN, 300 CTRS
EPIBYB-24-300

30739 < FILENAME < INTERNAL USE ONLY

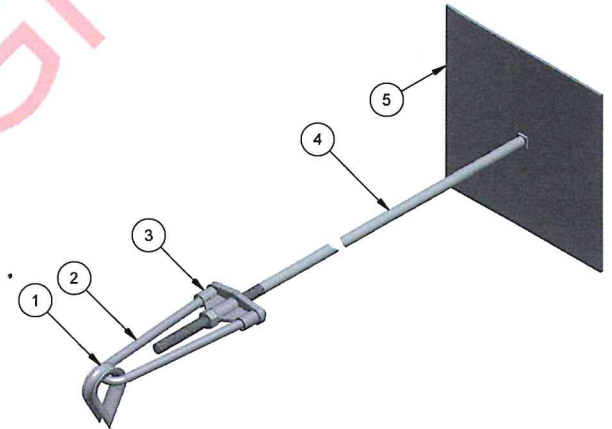
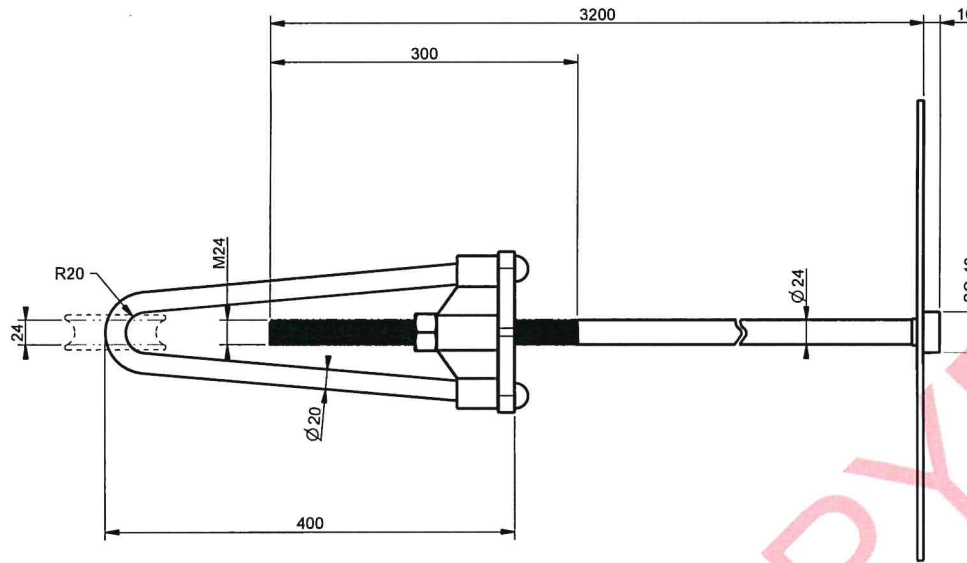
PRODUCT DRAWING

UNRESTRICTED RELEASE

EPC ITEM NUMBER
108050193

PARTS LIST

ITEM	DESCRIPTION
1	THIMBLE Ø 22
2	BOW Ø 20
3	CROSS HEAD YOKE
4	STAY ROD M24
5	STAY PLATE 450x450x6



LOT 4: ITEM 1.16
[Signature]

NOTES

1. MATERIAL: MILD STEEL 250
2. FINISH: HOT DIP GALVANISED
3. GALVANISING TO COMPLY WITH AS/NZS 4680:2006
MINIMUM AVERAGE ZINC COATING MASS = 600g/m²
4. TYPE TEST REQUIRED AND TEST REPORT TO BE SUBMITTED

B	05.09.17	SM	RP	IH	5972	1. ADDED EPC ITEM NUMBER TABLE
A	27.07.17	RP	AT	AT	5950	1. NEW DRAWING ISSUE
REV	REV DATE	DRWN	CHKD	APVD	CHANGE NUMBER	DESCRIPTION
UNITS						
MILLIMETERS						
DO NOT SCALE						
THIRD ANGLE PROJECTION						
TOLERANCES UNLESS NOTED						
x ± 1						
x.x ± 0.4						
QUALITY PLAN						
QTY.	LABEL	CRITICAL DIMENSION	DATE DRAWN	SCALE	SHEET NO	ORIGIN
0	C	0	19.05.17	1 OF 1	1 OF 1	B
0	V	0				
30732 < FILENAME < INTERNAL USE ONLY						

ITEM 1: THIMBLE Ø 22

ITEM 5: STAY PLATE



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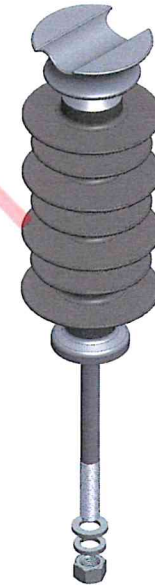
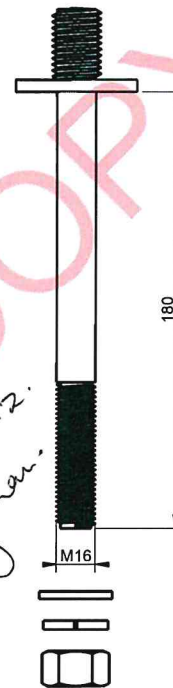
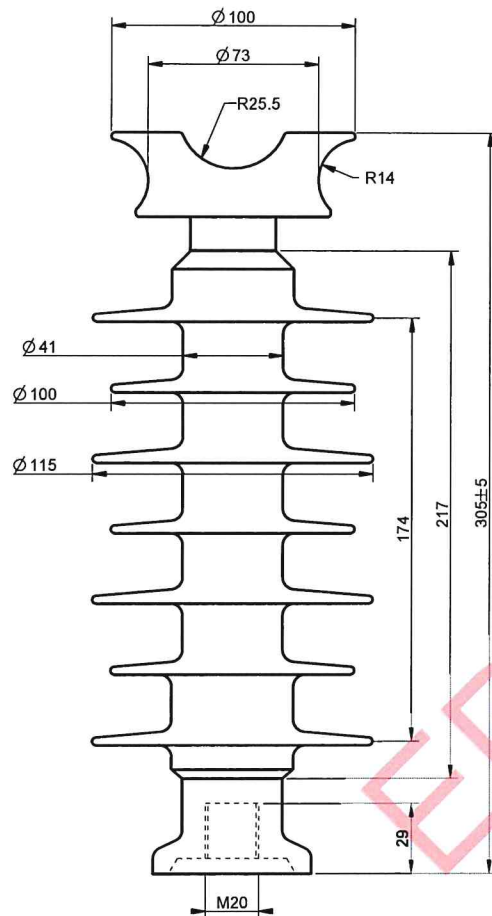
PRODUCTION DRAWING TITLE
STAY ROD ASSEMBLY
M24
EPSTYB-24-3200

SPECIFICATION
LPH-STYB

DRAWING NUMBER
30732

PRODUCT DRAWING
UNRESTRICTED RELEASE

EPC ITEM NUMBER
103025073



NOTES

- NOMINAL VOLTAGE: 25kV
- CREEPAGE DISTANCE: 600mm
- DRY ARCING DISTANCE: 255mm
- SPECIFIED CANTILEVER LOAD: 12.5kN
- IMPULSE WITHSTAND VOLTAGE: 150kV
- POWER FREQUENCY WITHSTAND VOLTAGE: 75kV
- MATERIAL: HOUSING - HTV SILICONE (GREY)
CORE - FRP
- END FITTINGS: GALVANISED STEEL ISO 1461
- REFERENCE STANDARD: IEC 61952
- TYPE TEST REQUIRED AND TEST REPORT TO BE SUBMITTED

B	05.09.17	YS	RP	IH	5972	1. ADDED EPC ITEM NUMBER TABLE
A	27.07.17	RP	AT	AT	5950	1. NEW DRAWING ISSUE
REV	REV DATE	DRWN	CHKD	APVD	CHANGE NUMBER	DESCRIPTION
UNITS MILLIMETERS DO NOT SCALE						
THIRD ANGLE PROJECTION						
TOLERANCES UNLESS NOTED x \pm 1 x.x \pm 0.4						
QUALITY PLAN						
QTY.	C	LABEL	CRITICAL DIMENSION	DATE DRAWN	04.04.17	
0	V	VISUAL INSPECTION				
DRAWN BY SM			SPECIFICATION INS-LP25		DRAWING NUMBER 30702	
SCALE NTS			SHEET NO 1 OF 1		REV B	



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PRODUCTION DRAWING TITLE
POLYMER LINE POST INSULATOR
25 kV, 12.5 kN, 'F' NECK
LP25-F