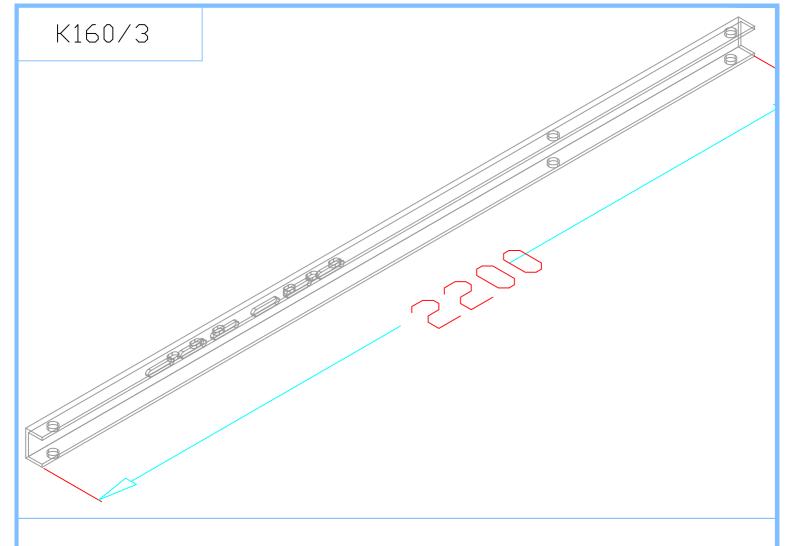


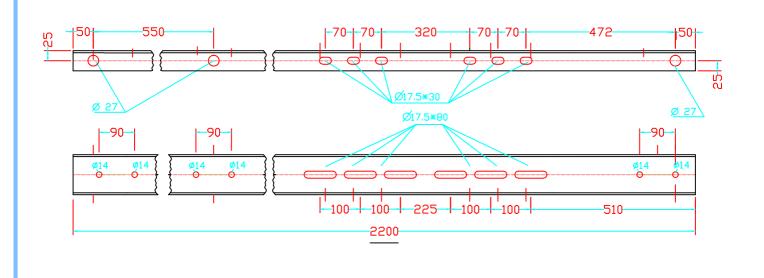


Steel Base 2.25m long For Lattice Steel pole 70/80-12m

Note: All component must be RSt 37.2 Or S235JI hot dip galvanized

	weight kg	mesurment	mesurment	Description	Ttem	Quant.
	8.6	2550	1275	Truss L45*45*5	40	2
	9.4	3880	970	Truss L40*40*4	37	4
	96.6	10000	2500	L80*80*8	31AB	2+2
	9.8	4040	1010	Truss L40*40*4	26	4
	9.6	3960	990	Truss L40*40*4	25	4
	7.5	1980	990	Truss L50*50*5	24A	2
איי	7.6	2020	1010	Truss L50*50*5	24	2
	149 k	C Total Ve	ight			



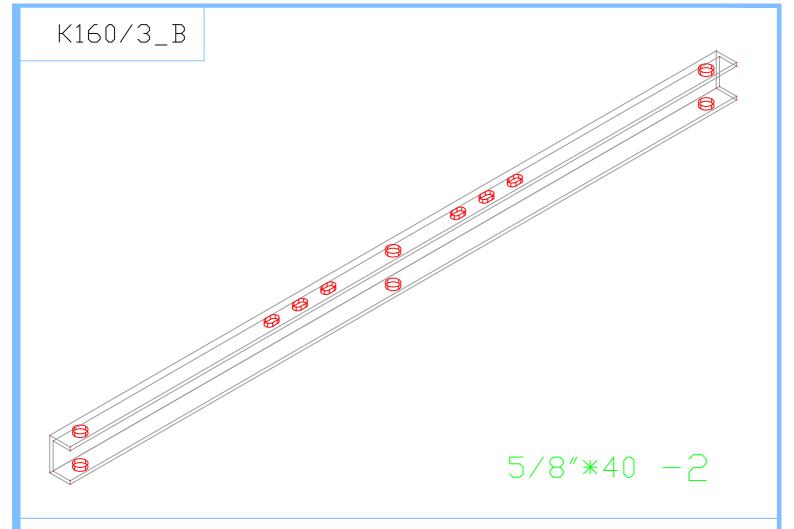


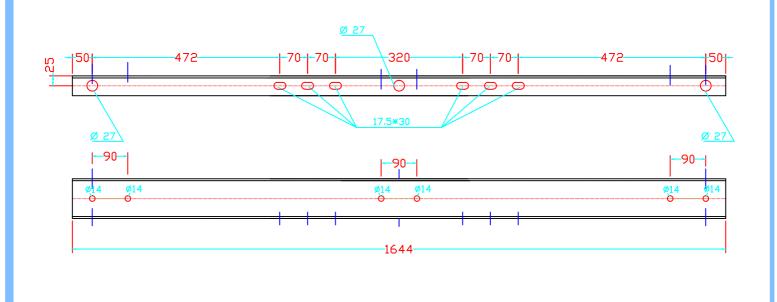


Hot Galvanized Auxilliary Steel Arm K160/3

Weight Kg	Unit mm mesurment	Description	Quant.	
19	2200	CN 8	1	

Note: All component must be Steel RST37.2 hot dip galvanized Dr S235 JR



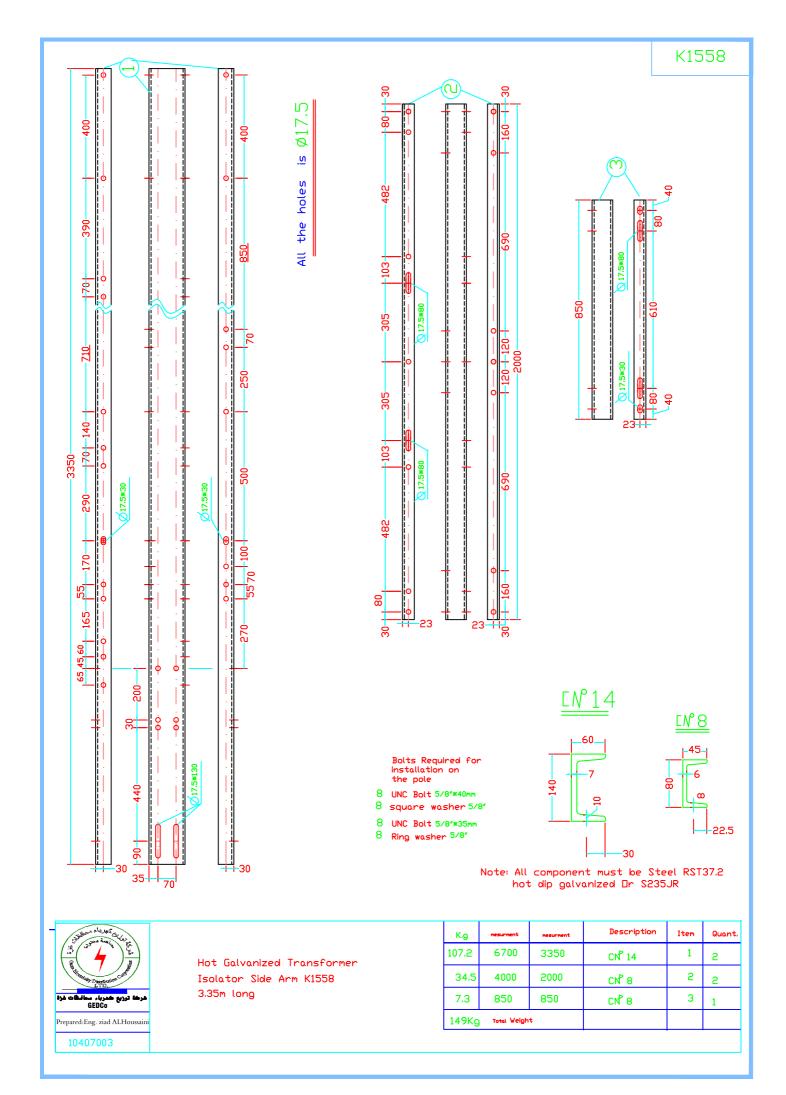




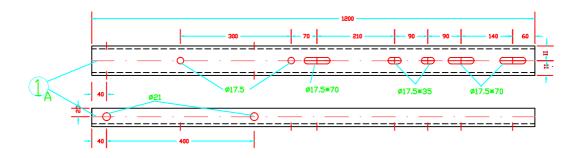
Hot Galvanized Auxilliary Steel Arm K160/3_B

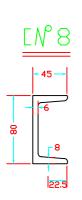
Weight Kg	nesurment	Description	Quant.
	1644	CN 8	1

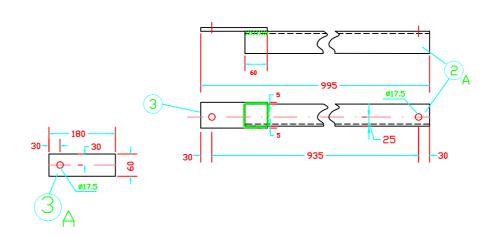
Note: All component must be Steel RST37.2 hot dip galvanized



K287-120







Bolts Required for installation on the pole

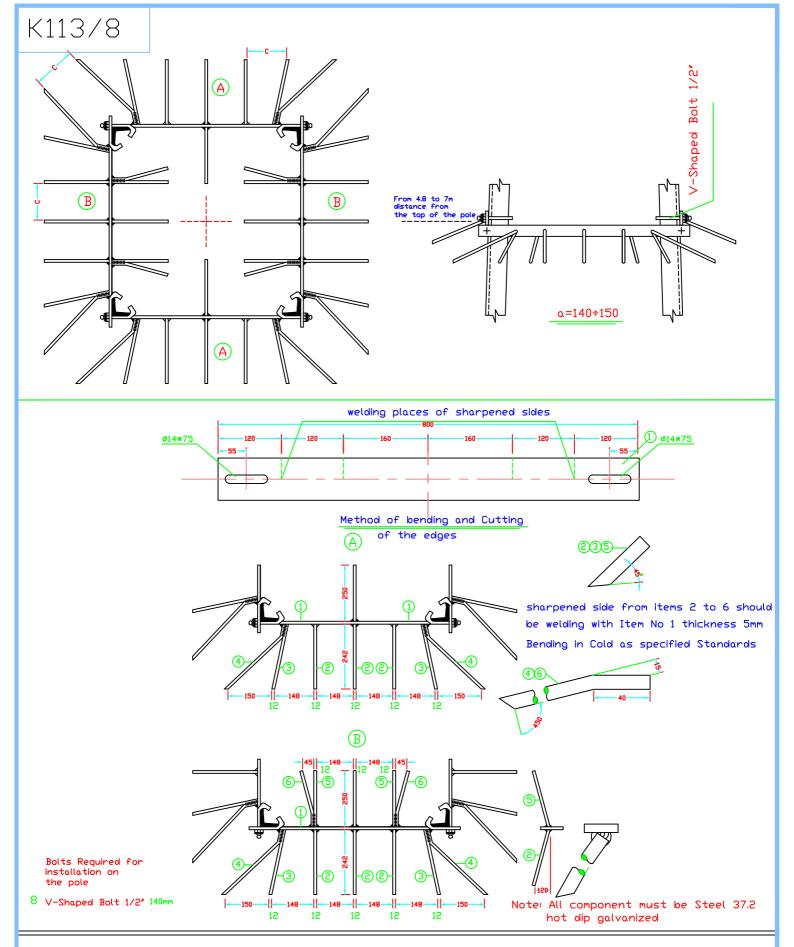
- 4 UNC Bolt 5/8**40mm
- 2 square washer 5/8"
- 2 Spring washer 5/8"

Note: All component must be Steel 37.2 hot dip galvanized



Hot Galvanized L.V Steel Pole Arm 120cm Long , Single

Weight kg	Total MM mesurment	Unit mm mesurment	Description	Quant.	Item
	1200	1200	[/ 8	1	1
13.8	875	875	PlateL50*50*5	1	2
0.8	180	180	Plate	1	3





Anti- Climbing Steel Arm K113/8

Welght Kg	Total MM mesurment	Unit mm mesurment	Description	Item	Quant
10	3200	800	Plate ⊅ 50*6	1	4
2.9	3240	270	Ø12	2	12
2.0	2240	280	Ø 12	3	8
2.4	2680	335	Ø12	4	8
2.0	2240	280	Ø 12	5	8
1.0	1120	280	Ø12	6	4
21kg					

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Design Standards		IEC60502-2 & IEC60228			
4	Test Standards		IEC60230 & IEC60502-2 & IEC60811			
5	Code & Designation		NA2XS(F)2Y , Power Cable with Aluminum Conductors and XLPE Insulation			
6	Climatic Design		- 5°C to 55°C			
7-	Rated Voltage					
7.1	Between Conductor and Sheath (U _o)	kV	12			
7.2	Between any Two Conductors (U)	kV	20			
7.3	Max. Service Voltage (U _m)	kV	24			
7.4	System Nominal Voltage	kV	22			
8	Rated Frequency	HZ	50			
9	Impulse withstand Voltage 1,2/50 µs	kV	125			
10- (Cable Design					
10.1 0	Conductor:					
10.1.1	Cross Section	mm ²	120			
10.1.2	Material		Aluminum			
10.1.3	Class and Form		Stranded Compacted Circular (filled with swelling			
10.1.4	Minimum / Maximum Diameter	mm	12.8 / 13.5			

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
10.1.5	Minimum Number of Strands	No	15			
10.1.6	Weight of Conductor Per Meter	Kg/Km	shall be filled by manufacturer			
10.1.7	Maximum DC Resistance of Conductor at 20°C	Ω/km	0.253			
10.1.8	Max. Rated Temperature for Permanent Load	°C	90			
10.1.9	Max. Rated Temperature for Emergency Loads	°C	105			
10.1.10	Max. Rated Conductor Temperature at Short Circuit (1 sec. max. duration)	°C	250			
10.2 lr	nner Semi Conductive Layer (Cond	ductor Scre	en) :			
10.2.1	Material		Triple Extruded Bonded Thermosetting Semi-Conductive Layer			
10.2.2	Thickness at Any Point	mm	0.3			
10.2.3	Max Service Temperature	°C	90			
10.3- X	(LPE Insulation :					
10.3.1	Material		Triple Extruded Dry Cured (XLPE)			
10.3.2	Nominal Thickness	mm	5.5			
10.3.3	Minimum Thickness at Any Point	mm	4.85			
10.3.4	Diameter Over Insulation	mm	shall be filled by manufacturer			
10.3.5	Max Service Temperature	°C	90			

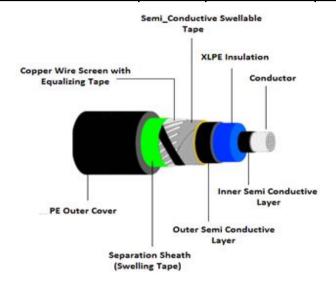
No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
10.3.6	Weight	Kg/Km	shall be filled by manufacturer			
10.4- 0	Outer Semi Conductive Layer (Insu	lation Scre	en) :			
10.4.1	Material		Triple Extruded Bonded Thermosetting Semi-Conductive Layer			
10.4.2	Thickness at Any Point	mm	0.3			
10.4.3	Max Service Temperature	°C	90			
10.5- \$	Semi-Conductive Water Swelling T	ape:				
10.5.1	Material		Semi Conductive Tape			
10.5.2	Thickness at Any Point	mm	0.3			
10.5.3	Max Service Temperature	°C	90			
10.6- C	Copper Wire Screen (including Equ	ıalizing Tap	pe) :			
10.6.1	Material of Wire and Equalizing Tape		Copper			
10.6.2	Minimum Wires Number		shall be filled by manufacturer			
10.6.3	Wire Geometrical Cross Section	mm^2	16			
10.6.4	Equalizing Tape Width	mm	10			
10.6.5	Equalizing Tape Thickness	mm	0.1			
10.7- \$	Separation Sheath (Binder Tape) :					
10.7.1	Material		Water Blocking Tape Non- Conductive			

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments					
10.7.2	Thickness	mm	0.2 - 0.3								
10.7.3	Max Service Temperature	°C	90								
10.8- C	Outer Sheath :				I						
10.8.1	Material	mm	PE ST7 with Chemical Additives								
10.8.2	Specify PE (LDPE, MDPE, HDPE)		Required								
10.8.3	Nominal Thickness	mm	2.1								
10.8.4	Minimum Thickness at Any Point	mm	shall be filled by manufacturer								
10.8.5	Max Service Temperature	°C	90								
10.8.6	Color		Black								
10.8.7	Weight	Kg/Km	shall be filled by manufacturer								
10.9-	Completed Cable :										
10.9.1	Overall Diameter of the Cable	mm	shall be filled by manufacturer								
10.9.2	Total Weight of the Cable	kg/km	shall be filled by manufacturer								
10.9.3	Minimum Bending Radius	mm	shall be filled by manufacturer								
10.9.4	Sustained Current Rating in Unde	erground U	nder Below Condi	Sustained Current Rating in Underground Under Below Conditions :							

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
10.9.4.1	At Flat Laying Arrangement (Buried in 0.7 m Deep in Soil at 20 °C with 1 k.m/w Thermal Resistivity and Load Factor 0.7)	А	319			
10.9.4.2	At Trefoil Laying Arrangement (Buried in 0.7 m Deep in Soil at 20 °C with 1 k.m/w Thermal Resistivity and Load Factor 0.7)	А	285			
11	Maximum Short-Circuit Current of Conductor During 1 sec.	KA	≥11.3			
12- D	rum :					
12.1	Method of Cable Delivery		on Drums			
12.2	Length of Cable on Drum	m	1000			
12.3	Drum Material		New Wood			
12.4	Cable Protection on Drum		Wooden Batten			
12.5	Max. Gross Weight of Drum with Cable	kg	shall be filled by manufacturer			
12.6	Dimension of Drum	mm	shall be filled by manufacturer			
13	Permissible Pulling Forces	N	shall be filled by manufacturer			
14- Te	est :					

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
14.1	Type Test Certificates /Reports from internationally reputed testing agency		Required			
14.1	Acceptance & Routine tests witnessed by Three Beneficiary Engineers		Required			
			Hot Stamping, giving :			
			1- Type of cable			
			2- Conductor Cross-section area			
			3- Beneficiary Name (Gedco)			
15	Marking		4- Manufacturer name			
15	iwarking		5- Nominal voltage			
			6- Length for Each Meter			
			7- Production year			
			8- No. Of Purchase order (GEDCo)			
			9- type of PE			

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Committee
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Tenderer's Signature:	Date:	
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0.6/1 KV ABC Cable 1x95 mm² Aluminium

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Reference Standards		CENELEC HD 626 S1:1996 PART 6 Section E, included in National Standards NFC 33209and BS 7870-5			
4	Max. Rated Conductor Temperature at Short Circuit (5 sec. max. duration)	°C	250			
5	Max. Rated Temperature for Permanent Load	°C	90			
	Voltage					
6	a) Rated Voltage	kV	0.6/1			
	b) Max. Service Voltage	kV	1.2			
7	Nominal System Voltage Phase to Phase	kV	0.4			
8	Туре		Insulated 3 Phase and 1 Neutral Messenger			
9	All Conductors Form		Circular Compacted , Concentric Strand			

0.6/1 KV ABC Cable 1x95 mm² Aluminium

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
	2- Neutral Messenger Conductor					
	a) Cross Sectional Area	mm ²	95			
	b) Number of Cores		1			
	c) Minimum Number of Strands	No	≥12			
	d) Minimum / Maximum Diameter of Conductor	mm	12/12.9			
	e) Messenger Conductor Material		Aluminium Alloy			
	f) Insulation Material		Extruded Black Weather- Resistant XLPE			
	g) Insulation Average Thickness	mm	1.6			
11	h) Min / Max Diameter Over Insulation	mm	shall be filled by manufacturer			
	i) Max. Phase Conductor DC Resistance at 20 °C	Ω/km	0.343			
	j) Minimum Breaking load	KN	27.5			
	k) Marking		Embedded print, giving: 1- Type of cable 2- Cross-section area of phase and neutral conductors 3- Beneficiary Name (Gedco) 4- Manufacturer name 5- Nominal voltage and Length for Each Meter 6- Production year			

0.6/1 KV ABC Cable 1x95 mm² Aluminium

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
12	Approximate Overall Diameter of all cable	mm	shall be filled by manufacturer			
13	Approximate Total Weight of the Complete Cable	kg/km	shall be filled by manufacturer			
14	Drum Material		New Wood			
15	Cable Protection on Drum		Wooden Batten			
16	Drum Dimensions		shall be filled by manufacturer			
18	Type Test Certificates/Reports from internationally reputed testing agency		Required			
19	Acceptance & Routine tests witnessed by Beneficiary		Required			

Tenderer's Signature :	 Date:	

Hard Drawn Stranded Copper Conductor 35 mm2

	Project Name & Number					
	Contractor Name					
No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Reference Manufacturing Standards		BS7884 & DIN 48201			
4	Conductor Material		Copper			
5	Conductor Construction		Hard Drawn Stranded			
6	Nominal Cross-Sectional Area of Conductor	mm ²	35			
7	Number Copper Strands	No.	7			
8	Diameter of Copper Strand	mm	2.5			
9	Overall Diameter of Conductor	mm	7.5			
10	Max. Conductor DC Resistance at 20 °C	Ω/km	0.5337			
11	Minimum Breaking Load	Newton	12860			
12	Current Rating in Free Air	Amps	200			
13	Conductor Geometric Mean radius	mm	shall be filled by manufacturer			
14	Modulus of Elasticity	kg/mm²	shall be filled by manufacturer			
15	Coefficient of Thermal Elongation , per °C		shall be filled by manufacturer			

Department of Standards and Metrology CU 35 mm2 Hard/08/09/2019/1/2

Hard Drawn Stranded Copper Conductor 35 mm2

	Project Name & Number					
	Contractor Name					
No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
16	Conductor Nominal mass per unit Length	kg/km	308			
17	Drum Material		New Wood			
18	Cable Protection on Drum		Wooden Batten			
19	Drum Dimensions		shall be filled by manufacturer			
20	Conductor Length on Drum	m	1000			
21	Total mass of Conductor with Drum	Kg	shall be filled by manufacturer			
22	Type Test Certificates/Reports from internationally reputed testing agency		Required			
23	Acceptance & Routine tests witnessed by Beneficiary		Required			

Tenderer's Signature :	 Date:	

Department of Standards and Metrology CU 35 mm2 Hard/08/09/2019/2/2

ACSR Conductor Rabbit

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Reference Manufacturing Standards		British Sizes BS215 PART2 or EN 50182			
4	Туре		Aluminium Conductor Steel Reinforced - (ACSR)			
5	Core Material		Greased Stranded Galvanized Steel Wires			
6	Conductor Material		Stranded Aluminium Wires			
7	Code		ACSR Rabbit			
8	Nominal Cross-Sectional area of ACSR Wire	mm ²	61.7			
9	Number of Steel Core Strands	No.	1			
10	Diameter of Steel Core Strand	mm	3.35			
11	Number of Aluminium Strands	No.	6			
12	Diameter of Aluminium Strand	mm	3.35			

Department of Standards and Metrology ACSR Rabbit/12/02/2019/1/3

ACSR Conductor Rabbit

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
13	Total Overall Diameter of Conductor	mm	10.05			
14	Max. Conductor DC Resistance at 20 °C	Ω/km	0.5426			
15	Breaking Strength	KN	18.3			
16	Min. Current Rating in free Air	Amps	185			
17	Conductor resistance for base temperature 20 C°	ohm/Km	shall be filled by manufacturer			
18	Modulus of Elasticity	kg/mm²	shall be filled by manufacturer			
19	Coefficient of Thermal Elongation , per °C		shall be filled by manufacturer			
20	Weight of Aluminium Conductors	kg/km	145			
21	Weight of Steel Conductors	kg/km	68.5			
22	Total Weight of the Conductor	kg/km	shall be filled by manufacturer			
23	Drum Material		New Wood			
24	Cable Protection on Drum		Wooden Batten			
25	Drum Dimensions	mm	shall be filled by manufacturer			
26	Conductor Length on Drum	m	2000			

Department of Standards and Metrology ACSR Rabbit/12/02/2019/2/3

ACSR Conductor Rabbit

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
27	Type Test Certificates/Reports from internationally reputed testing agency		Required			
28	Acceptance & Routine tests witnessed by Two Gedco Engineers		Required			

Tenderer's Signature:	 Date:	
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Department of Standards and Metrology ACSR Rabbit/12/02/2019/3/3

36 Kv, 3-phase Outdoor Isolating Switch With Built-In Arc Interruption

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer		ELCO or Equivalent			
2	Country of Origin		ISRAEL			
3	Standards		IEC 62271-103, IEC62271-102			
4	Rated Voltage	kV	36			
5	Design and Operating		Manual Isolating Switch under load having capability of frequent switching			
6	All Ferrous Parts Material		Hot Galvanized Steel			
7	Pole No.		3			
8	Safe Operating Zone Temperature	°C	-10 to +55			
9	Rated Frequency	Hz	50			
	Arc Interruption					
	Name of Manufacturer					
	Country of Origin					
	Туре		Heavy Duty			
10	Operating		without an External Arc or Flame Conforming to IEC 62271-103		can be fixed in both directiones of the pole	
	Installation		Hard Fixed and not Able to Rotate and can be fixed in both directiones of the pole (inside, outside			
	Insulators					

Department of Standards and Metrology 36KV SWITCH/02/03/2020/1/3

36 Kv, 3-phase Outdoor Isolating Switch With Built-In Arc Interruption

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
	Name of Manufacturer					
11	Country of Origin					
	a) Material		Polymer			
	b) Creepage Distance	mm	1050			
12	Continuous Current Capacity	А	630			
13	Rated Peak withstand Current	KA	31.5			
14	Rated Short Time Current (1 sec Duration)	KA	12.5			
	Rated Lightning Impulse withstand	/oltage		-		
15	a) Standard Impulse with Stand Voltage to Earth (1.2/50 μs Full Wave)	kV	170			
	b) Between Poles Across Isolating Distance	kV	190			
	Rated One Minute Power Frequency	withsta	nd Voltage in Dry and	d Wet Condition	ons	
16	a) Power Frequency Test Voltage to Earth	kV	75			
	b) Between Poles Across Isolating Distance	kV	100			
17	Minimum Clearance Between Phase and earth	mm	shall be filled by manufacturer			
18	Minimum Clearance Between Phases	mm	shall be filled by manufacturer			
19	Mechanical Operations	C/O	≥1000			
20	Electrical Operations Under 400A load	C/O	shall be filled by manufacturer			
21	Short Circuit Electrical Operations	C/O	shall be filled by manufacturer			

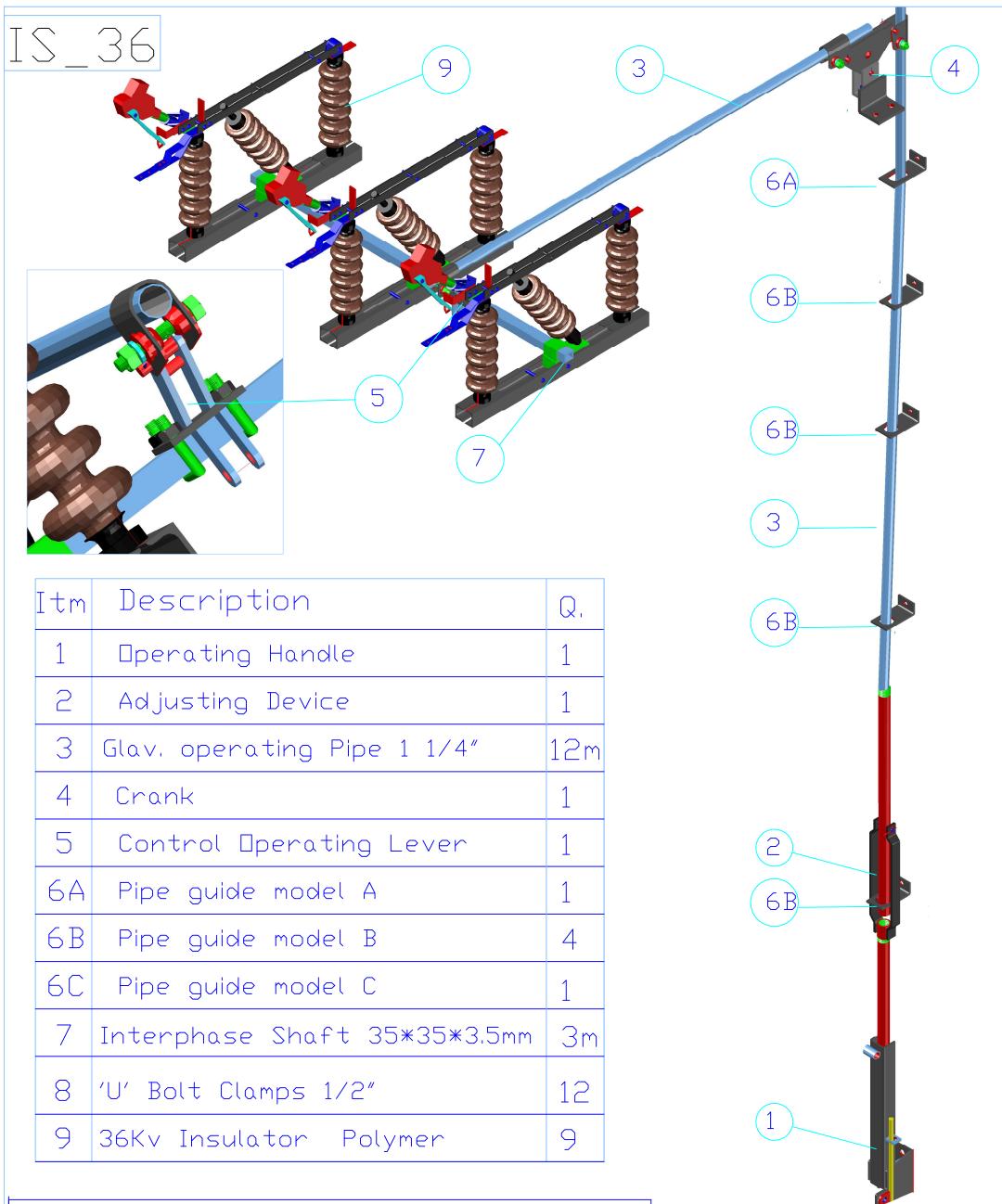
Department of Standards and Metrology 36KV SWITCH/02/03/2020/2/3

36 Kv, 3-phase Outdoor Isolating Switch With Built-In Arc Interruption

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
22	Installation and operating accessories		Required			
23	Type Test Certificates/Reports from internationally reputed testing agency (According IEC 62271-1 and IEC 62271-103)		Required			
	Acceptance & Routine tests witnessed by Beneficiary		Required			
25	Switch Parts, Accessories and All Dimensions		As Attached Drawing No IS_36			

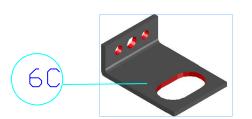
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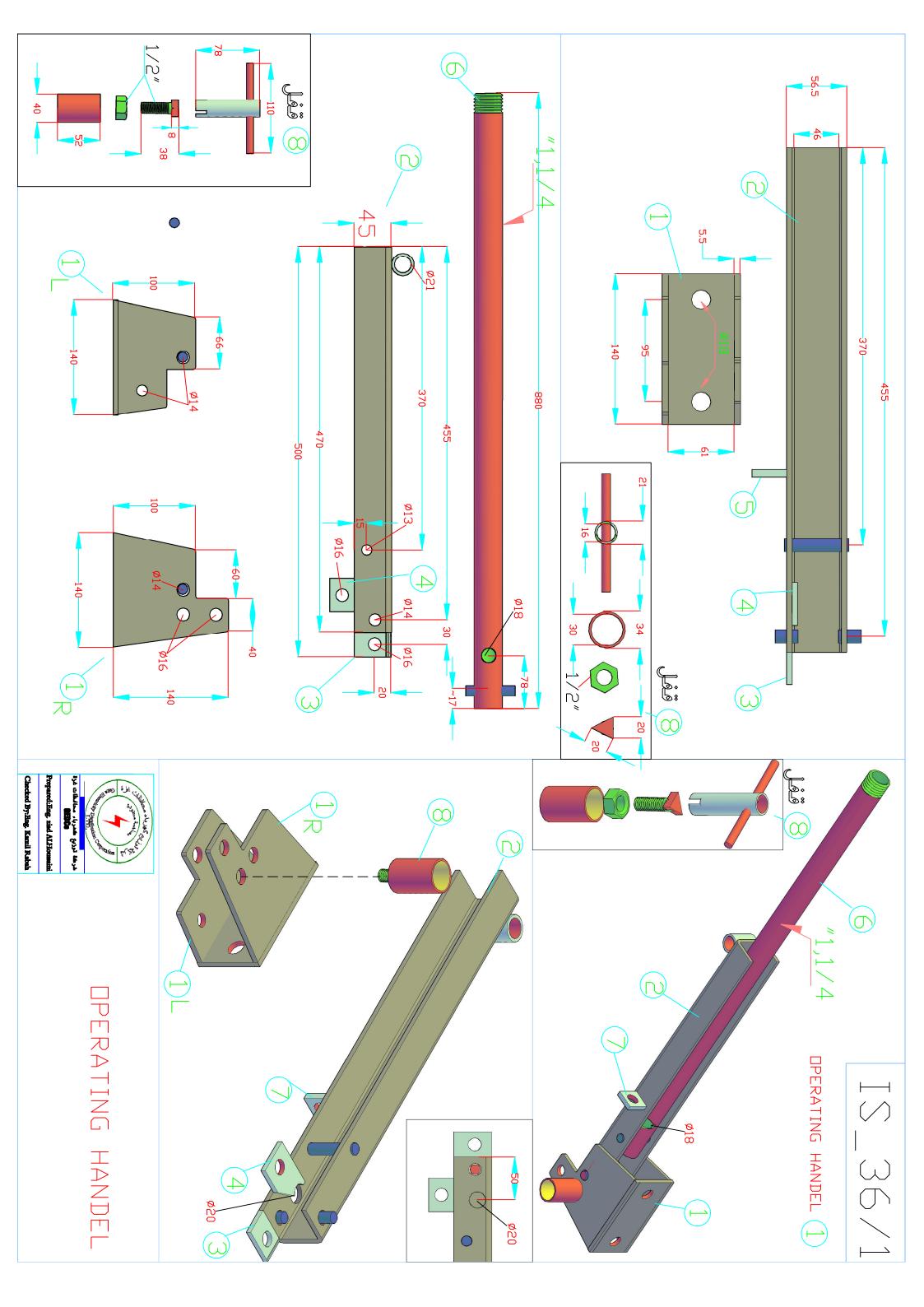
Department of Standards and Metrology 36KV SWITCH/02/03/2020/3/3



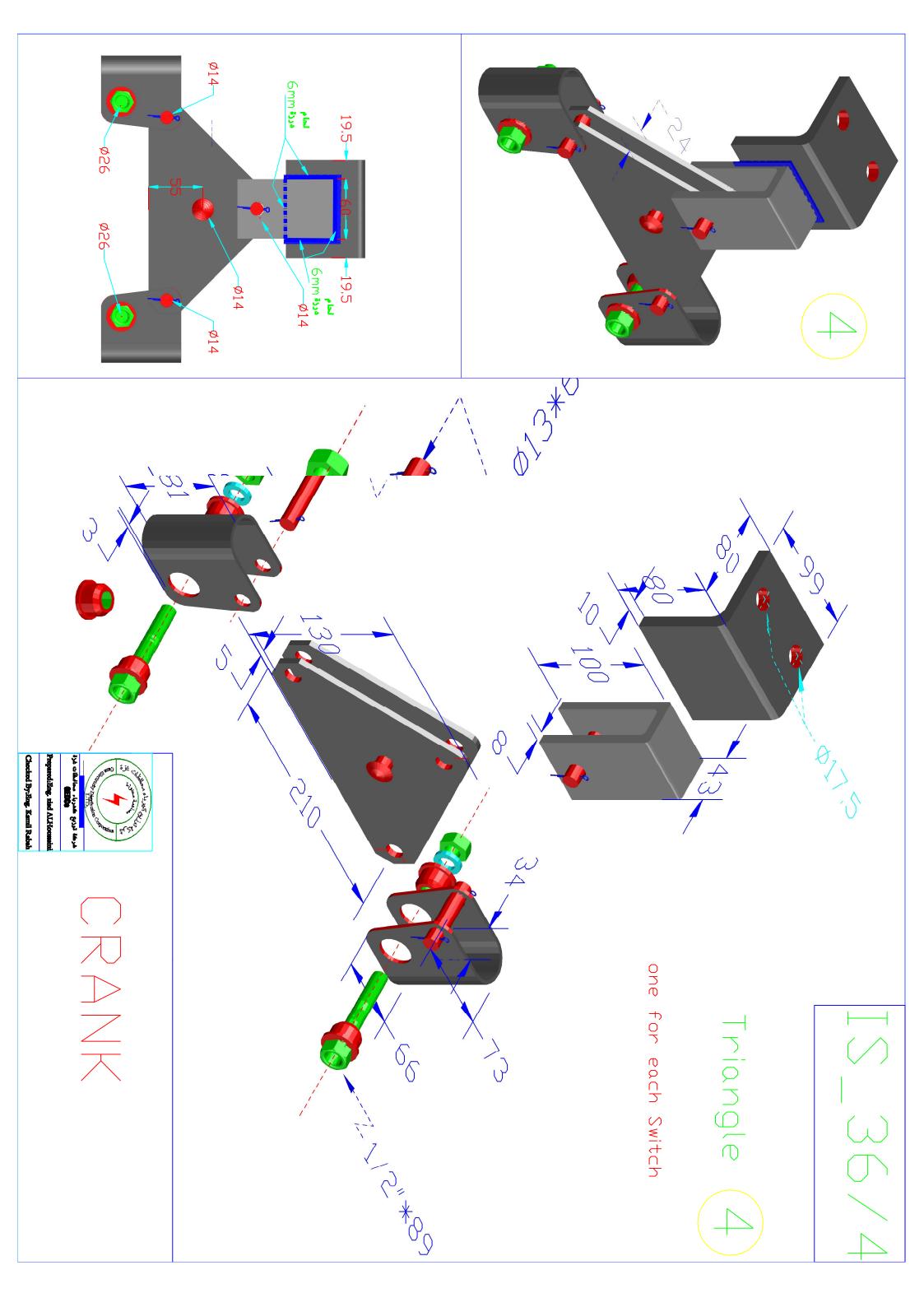


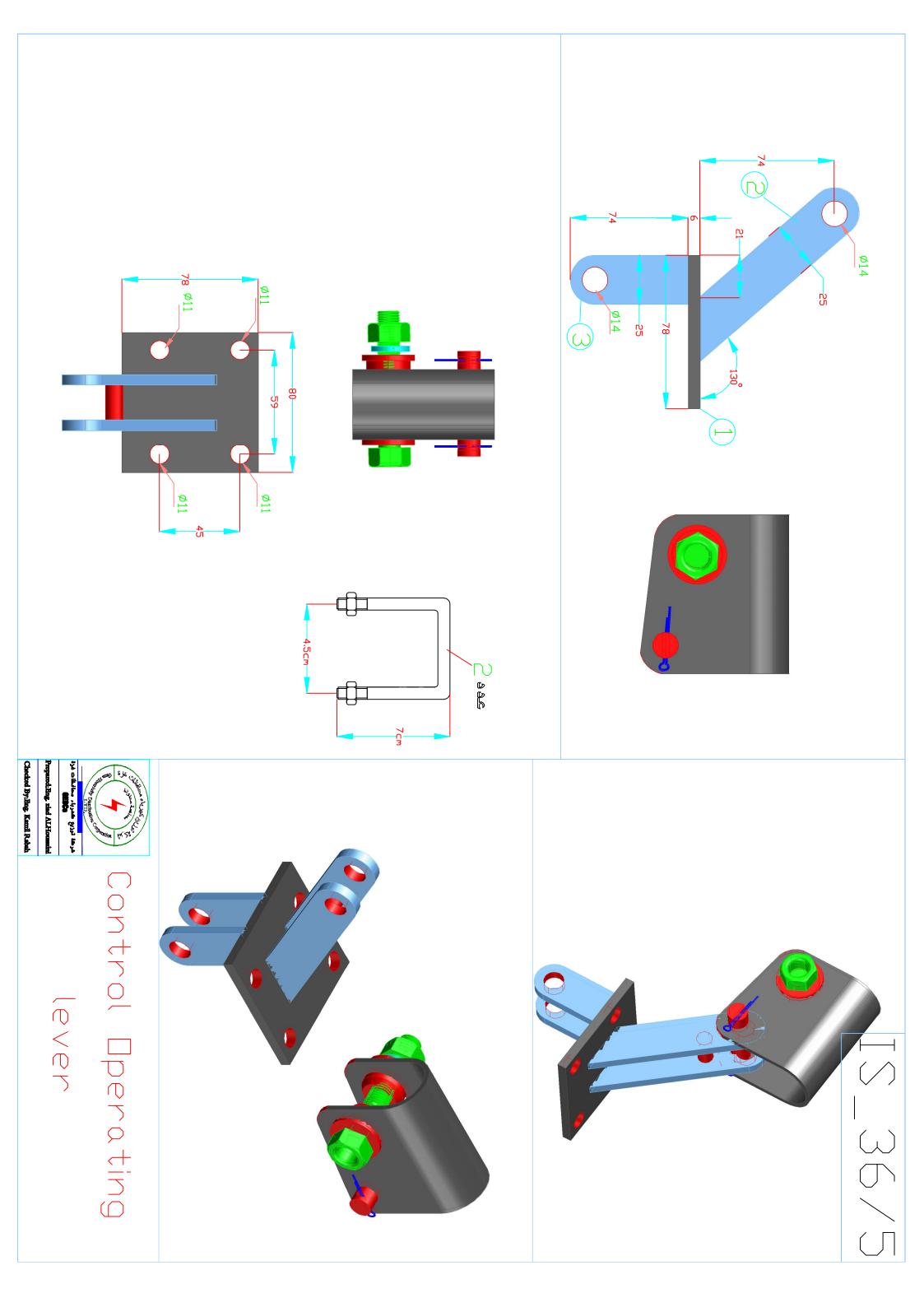
36KV Load Break Switch With Built-in arc interrupter

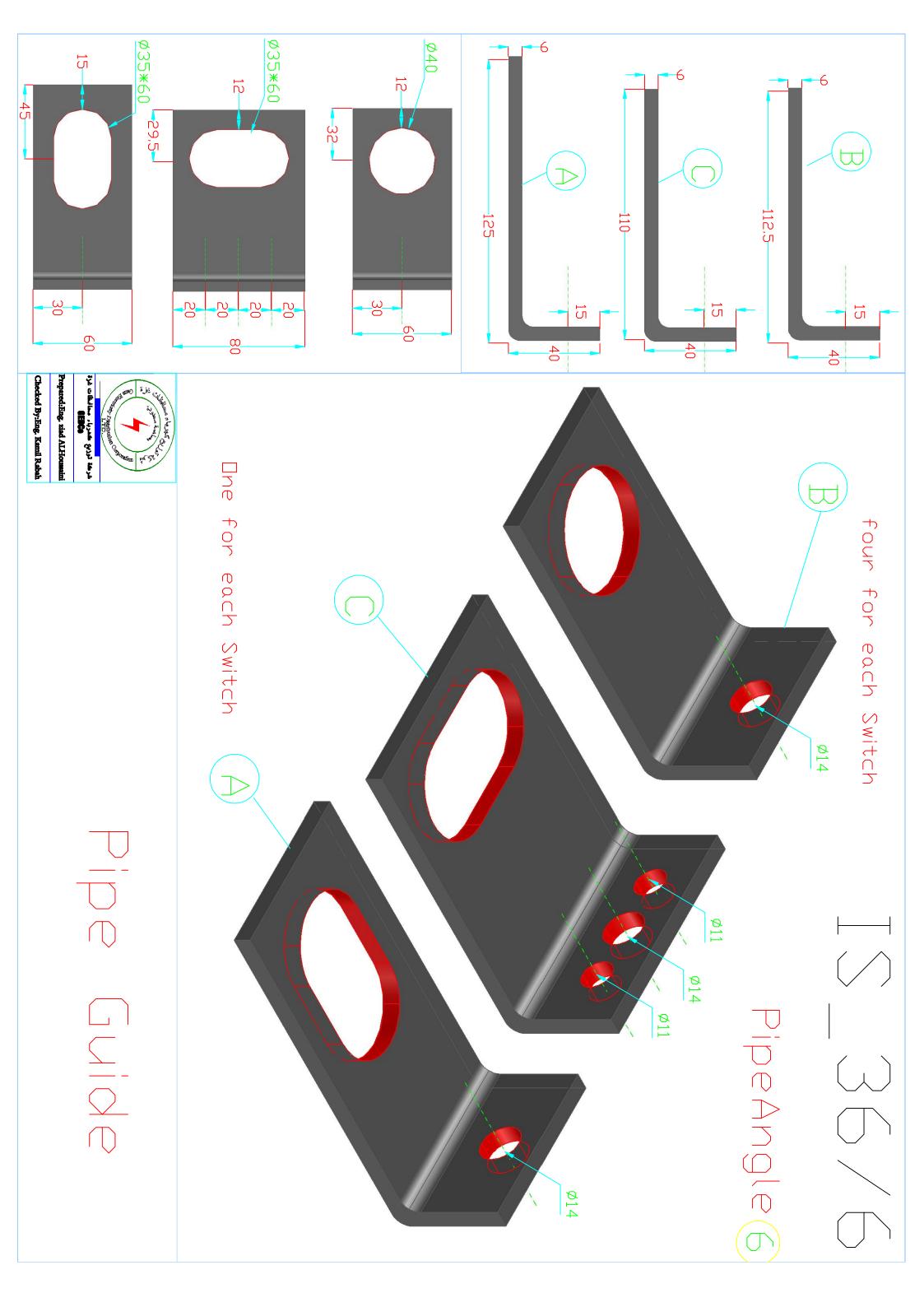












36 kv Heat Shrinkable Outdoor Termination Kit for XLPE Cable 1x120/16 mm²

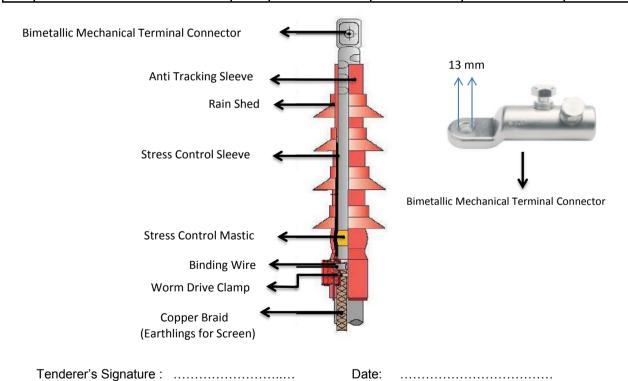
No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Standards		IEC60502 & CENELEC HD629.1 S1			
4	Max. Service Voltage (Um)	kV	36			
5	Outdoor Termination Material , form , Designation		Heat Shrink Tubing and Molded Parts Shall be Flexible, Made from Specially Formulated Cross-Lined Polymeric			
6	Cable and Conductor Type		Single Core Conductor Cable with Copper Wire Shield			
7	Cable Insulation Type / Thickness		XLPE / 5.5 mm			
8	Conductor Cross Sectional Area	mm²	120			
9	Wire Screen Cross Sectional Area	mm²	16			
10	Termination Length	mm	530			

36 kv Heat Shrinkable Outdoor Termination Kit for XLPE Cable 1x120/16 mm²

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
11	Rain Shed Diameter	mm	115			
12	Number of Rain Sheds	No	4			
13	Insulating , Electrical Material and Rain Shed Brittle Temperature	°C	<-40			
14	Impulse withstand Voltage Test 1.2 Micro Second Between Conductor & Screen Grounded	kV	170			
15-	· Test :					
15.1	All Type tests reports by qualified laboratory according to CENELEC HD 629.1 S1		Required			
15.2	Routine test report		Required			
	Heat Shrinkable Outdoor Termin	ation	Kit Parts			
	Bimetallic Terminal Mechanical Lug with 13 mm Hole and 2 each Shear_Head Bolts (for Aluminium or Copper Conductors)		Required			
	Anti-Tracking Sleeve		Required			
16	Rain-Sheds (4each)		Required			
	Stress Control Sleeve		Required			

36 kv Heat Shrinkable Outdoor Termination Kit for XLPE Cable 1x120/16 mm²

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
	Stress Control Mastic		Required			
	Binding Wire		Required			
	Worm Drive Clamp		Required			
	Copper Braid (Earthlings)		Required			
17	Installation Instruction Documents		Required			



Technical Guarantees No. PPYI_800

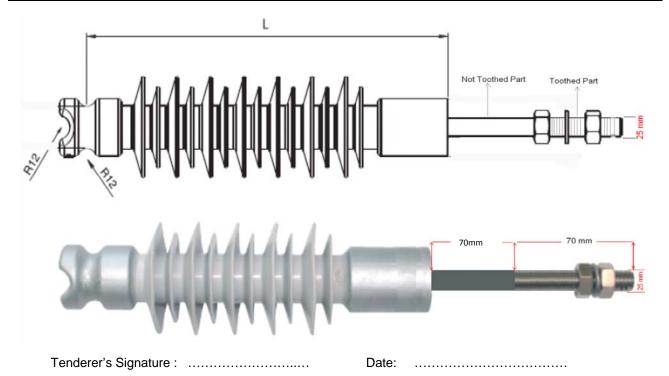
22kv Overhead Line Pin Type Polymer Insulator with Creepage Distance 800 mm

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Design Standards		IEC 61109 , IEC 60815			
4	Nominal System Voltage	kV	24			
5	Туре		Pin Type			
6	Insulating Material		Composite Polymer			
7	Housing		Silicon			
8	Metal Parts		Hot Dip Galvanized			
9	Number of Sheds					
10	Total Length (L)	mm				
11	Shed Diameter	mm				
12	Min. Creepage Distance	mm	800			
13	Cantilever Strength	KN	12.5			
14	Total Weight	Kg				
15-	Power Frequency withstand Volta	age (1 mi	n)			
15.1	a) Dry	kV	70			
15.2	b) Wet	kV	50			
15.3	c) Impulse +VE & -VE	kV	150			
16-	16- Flashover Voltage					
16.1	a) Power Frequency (Dry)	kV	100			
16.2	b)Power Frequency (Wet)	kV	70			
16.3	c) Impulse +VE & -VE	kV	160			

Technical Guarantees No. PPYI_800

22kv Overhead Line Pin Type Polymer Insulator with Creepage Distance 800 mm

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
17-	Fittings					
17.1	Pin Diameter (stud)	mm	25			
17.2	Pin Not_Toothed Part Length	mm	70			
17.3	Pin Toothed Part Length	mm	70			
17.4	The Top slot Diameter	mm	24			
17.5	Pin Accessories		Nuts and Washers			
18	Type Test Certificates/Reports from internationally reputed testing agency		Required			
19	Dimensions		as Below Drawing			



Technical Guarantees No. HST_50/16

Flame Retardant Heat Shrinkable Tube with Shrink Ratio 3:1

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Reference Manufacturing Standards		IEC243 , IEC251			
4	Description		Environment friendly flame retardant heat			
5	Operating Temperature	C°	-55 to+125 C			
6	Rated Voltage	kv	0.6/1			
7	Material		High Quality Polymer			
8	Min. / Max. Cable Outer Diameter	mm	16/48			
9	Cable Outer Sheath	mm	PVC or LDPE			
10	Dielectric strength	KV/mm	≥20			
11	Tensile strength	Мра	≥13			
12	Tensile strength after aging	Мра	≥11			
13	Ultimate Elongation	%	≥300			
14	Shrink Ratio		3:1			
15	Tube Size Before Heating	mm	50			
16	Tube Size after Heating	mm	16			
17	Tube Min. Thickness	mm	1.2			
18	Colour		Black			

Tenderer's Signature :	Date:	
renderer a olynature.	 Date.	

Studies and Documentation Section 1/1

Electrical Insulation Black Tape

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Standards		UL 510, ASTM D1000			
4	Material		Flame Retardant Vinyl			
5	Color		Black			
6	Width	mm	20			
7	Length	m	20			
8	Thickness	mm	0.18			
9	Max. Voltage	V	600			
10	Tensile Strength	Kg/cm	3.2			
11	Elongation	%	200			
12	Adhesive		Rubber Resin			
13	Dielectric Breakdown	Volts	9000			
14	UV Resistance		Yes			

Tenderer's Signature :	Doto	
Tenderer's Sidnature.	 Date.	

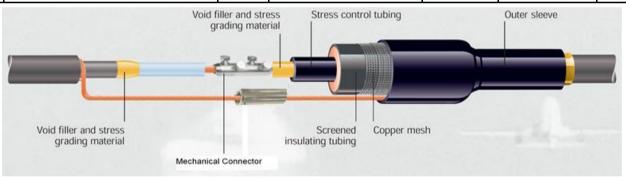
Studies and Documentation Section 1/1

24 kv Heat Shrinkable Straight Joint for Single Core XLPE Cable 1x120/16 mm^2

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Standards		HD 629.1 S1 , VDE0276 , VDE0620			
4	Max. Service Voltage (Um)	kV	24			
5	Cable and Conductor Type		12/20 kv Single Core Cable with Copper Wire Shield			
6	Cable Insulation Type		XLPE			
7	Conductor Cross Sectional Area	mm^2	120			
8	Copper Shield Cross Sectional Area	mm^2	16			
9- Te	st:			I		
9.1	Below Type tests reports by qualified laboratory according to CENELEC HD 629.1 S1 or IEC 60502-4:- AC Voltage Withstand Partial Discharge Impulse Voltage Withstand Short Time Current Cyclic Aging DC Voltage Withstand High Voltage Time Shielding		Required			
9.2	Mechanical connectors Test used in joints should pass the requirements in accordance with IEC 61238-1 class A.		Required			
10	Routine test report		Required			
11	Installation Instruction Documents		Required			
	Heat Shrinkable Straight Joint Parts			<u> </u>		
	Stress Control Tubing		Required			
	Screened insulating Sleeve		Required			
	Outer Sleeve (Heat Shrink able Conductive Material)		Required			

24 kv Heat Shrinkable Straight Joint for Single Core XLPE Cable 1x120/16 mm²

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
	Screened Insulating Tubing		Required			
	Filling Mastic		Required			
12	24kv Mechanical Connector with Shear-Head Bolts and Central Barrier for AL or CU Conductors (120 mm2)		Required			
	Compression Connector for Copper Shield (16 mm2)		Required			
	Mastic Wrap		Required			
	Copper Mesh		Required			



Copper Parallel Groove Clamp 10-95 mm2 / 10-95 mm2

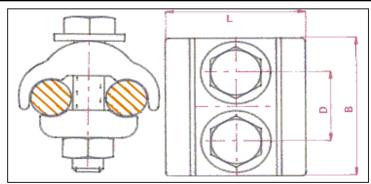
No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer		Kfar Menachem or Equivalent			
2	Country of Origin					
3	Standards					
	Material					
	a) Body		High Strength Copper Alloy (Cu Ni 2 Si)			
4	b) Bolts		High Strength Copper Alloy, F-60, DIN 933			
	c) Nuts		Copper, DIN 934			
	d) Washers (4 each)		Steel, DIN 6796, Copper Plated			
5	Surface		Uncoated			
6	Conductor Cross Sectional Area	mm ²	10-95 CU			
7	Conductor Diameter	mm	3.5-12.5			
8	Bolts (No. x Size x Length)		2 x M8 x 45			
9	Bolt Torque Moments		20Nm			
10	Metal Stamping		Required including manufacturer Logo and the Size of the Clamp			
11	Total Weight	gr	270			



L = 42.5mm

D = 22.5 mm

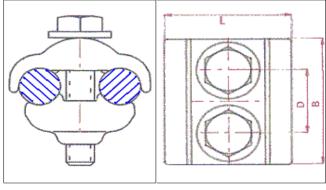
B = 42 mm



Aluminium Parallel Groove Clamp 16-120 mm2 / 16-120 mm2

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer		Kfar Menachem or Equivalent			
2	Country of Origin					
3	Reference Manufacturing Standards		DIN 48072-1			
	Material					
	a) Body		High strength, corrosion- resistant, aluminium alloy (AIMgSi1)			
4	b) Bolts		DIN 933, steel 8.8, hot-dip galvanized			
	c) Nuts		DIN 934, steel hot-dip galvanized, pressed into lower clamp body			
	d) Washers (6 each)		DIN 6796, corrosion- protected			
5	Conductor Cross Sectional Area	mm ²	16-120 AL and 16/2.5-95/15 ACSR			
6	Conductor Diameter	mm	5.1-14			
7	Bolts (No. x Size x Length)		2 x M8 x 50			
8	Bolt Torque Moments		23Nm			
9	Metal Stamping		Required including manufacturer Logo and the Size of the Clamp			
10	Total Weight	gr	145			





L = 45 mm

D = 25 mm

B = 50 mm

Bimetallic Parallel Groove Clamp 50-300 mm2 AL / 35-240 mm2 CU

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentatio	Evaluation Committee Comments
1	Name of Manufacturer		Kfar Menachm or Equivalent			
2	Country of Origin					
3	Reference Standards					
	Material					
4	a) Body		High strength, corrosion- resistant, aluminium alloy (AlMgSi1) with hot forged bimetallic sheet, for copper tap-off			
•	b) Bolts		Steel 8.8, DIN 933, hot-dip galvanized			
	c) Nuts		Steel 8, DIN 934 hot-dip galvanized			
	d) Conical Washers		According to DIN 6796 corrosion-protected			
5	ACSR or Aluminium Conductor Diameter	mm	9-24.5			
6	Copper Conductor Diameter	mm	7.5-20.3			
7	Bolts (No. x Size x Length)		3 x M10 x 70			
8	Bolt Torque Moments		46Nm			
9	Metal Stamping		Required including manufacturer Logo and the Size of the Clamp			
10	Test Certification		Required			
		D =	105mm 33 mm 65 mm			3
	Tenderer's Signature :		Date:			

Clamp to Holder the Cable (Single, Small)

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Description		Cable Clamps			
4	Cable Outer Diameter	mm	26-38			
5	No. of Cables		1			
6	Material		Polyamide, Glass Fiber Reinforced			
7	Tensile strength	N/mm ²	120			
8	Flexural Strength	N/mm ²	200			
9	Thermal Expansion		0.02% / 1°C			
10	Fire Resistance		UL 94 , VDE 0304, Part 3			
11	Accessories		2 Hot Galvanized Bolt with nuts and washers			
12	Dimensions		As Drawing			

Including 2 Hot Galvanized Bolts for fixing with the Plate

| Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head of the Plate | Head

60

60

12.4

32 - 44

Natural Nylon Cable Tie 500 mm Long

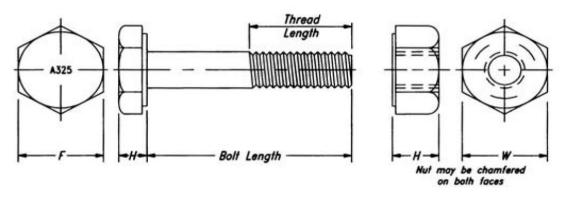
No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Standards		DIN 4102			
4	Material		UV Resistant , UL94 V0 self- extinguishing Natural Nylon ties			
5	Size	mm	7.5			
6	Length	mm	500			
7	Max. bundle diameter	mm	160			
8	Thickness	mm	1.8			
9	Average opening load	daN	65			

Tenderer's Signature:	 Date:	

Studies and Documentation Section 1/1

Hot Dip Galvanized Steel Bolt 7/8", 4.5 cm Complete with Nuts and Washers

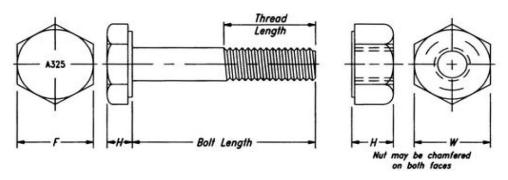
No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Standards		ASTM - A325 or equivalent			
4	Zinc cotating standard		ASTM A123, A153, A239 and A385, or relevant BS.			
5	Material		hot dip galvanized steel			
6	Heavy Hex Structural Bolt Dimension					
6.1	with across flat F	in	. 1 7/16			
6.2	height H	in	.35/64			
6.3	Thread Length T	in	. 1 1/2			
7	Heavy Hex Nut Dimension					
7.1	With across flats W	in	. 1 7/16			
7.2	Height H	in	.55/64			
8	Ring washer		Required			
9	Spring wacher		Required			



Tenderer's Signature :	Date:	
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Hot Dip Galvanized Steel Bolt 7/8", 5.0 cm Complete with Nuts and Washers

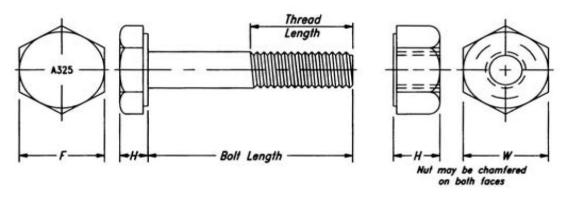
No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Standards		ASTM - A325 or equivalent			
4	Zinc cotating standard		ASTM A123, A153, A239 and A385, or relevant BS.			
5	Material		hot dip galvanized steel			
6	Heavy Hex Structural Bolt Dimension					
6.1	with across flat F	in	. 1 7/16			
6.2	height H	in	.35/64			
6.3	Thread Length T	in	. 1 1/2			
7	Heavy Hex Nut Dimension					
7.1	With across flats W	in	. 1 7/16			
7.2	Height H	in	.55/64			
8	Ring washer		Required			
9	Spring wacher		Required			
10	Grade		Grade 5 OR Grade A325			
11	Min. Yield Strength	(psi)	92000			
12	Min. Tensile Strength	(psi)	120000			
13	Test certificate		Required			



Tenderer's Signature :		Date:	
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Hot Dip Galvanized Steel Bolt 5/8", 4 cm Complete with Nuts and Washers

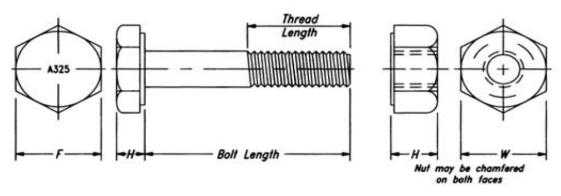
No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Standards		ASTM - A325 or equivalent			
4	Zinc cotating standard		ASTM A123, A153, A239 and A385, or relevant BS.			
5	Material		hot dip galvanized steel			
6	Heavy Hex Structural Bolt Dimension					
6.1	with across flat F	in	. 1 1/16			
6.2	height H	in	.25/64			
6.3	Thread Length T	in	. 1 1/4			
7	Heavy Hex Nut Dimension					
7.1	With across flats W	in	. 1 1/16			
7.2	Height H	in	.39/64			
8	Ring washer		Required			
9	Spring wacher		Required			



Tenderer's Signature :		Date:	
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Hot Dip Galvanized Steel Bolt 1/2", 3.5 cm Complete with Nuts and Washers

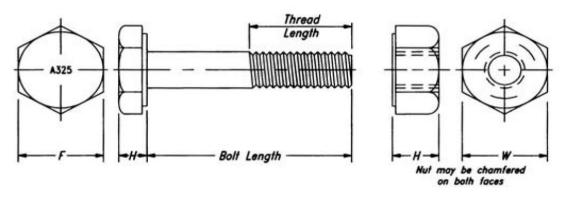
No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Standards		ASTM - A325 or equivalent			
4	Zinc cotating standard		ASTM A123, A153, A239 and A385, or relevant BS.			
5	Material		hot dip galvanized steel			
6	Heavy Hex Structural Bolt Dimension					
6.1	with across flat F	in	7/8			
6.2	height H	in	.5/16			
6.3	Thread Length T	in	1			
7	Heavy Hex Nut Dimension					
7.1	With across flats W	in	7/8			
7.2	Height H	in	.31/64			
8	Ring washer		Required			
9	Spring wacher		Required			



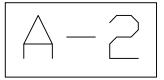
Tenderer's Signature:	Date:	
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Hot Dip Galvanized Steel Bolt 1/2", 5.0 cm Complete with Nuts and Washers

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Standards		ASTM - A325 or equivalent			
4	Zinc cotating standard		ASTM A123, A153, A239 and A385, or relevant BS.			
5	Material		hot dip galvanized steel			
6	Heavy Hex Structural Bolt Dimension					
6.1	with across flat F	in	7/8			
6.2	height H	in	.5/16			
6.3	Thread Length T	in	1			
7	Heavy Hex Nut Dimension					
7.1	With across flats W	in	7/8			
7.2	Height H	in	.31/64			
8	Ring washer		Required			
9	Spring wacher		Required			



Tenderer's Signature :		Date:	
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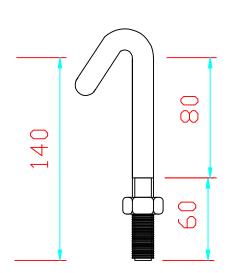


-UNC-V-Bolt-

Using: For fixing Outdoor L.V switch box and Anti-climbing arm K113/8 on lattice steel poles

Description

1-UNC-V-Bolt 1/2"*140mm. with nut, Spring wesher and Ring washer.

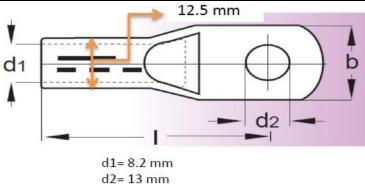


Gaza Electricity Distribution Corporation LTD. Technical Guarantees No. 11701004

Compression Terminal Lug with 13 mm Hole for 35 mm² Copper Conductor

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Reference Manufacturing Standards		DIN 46235			
4	Description		Copper Compression Lug with 13mm Hole			
5	Material		E-Cu, DIN 40500/2, F-25			
6	Surface		Tin-plated			
7	Туре		Compression, Longitudinally Sealed			
8	Conductor Cross Section	mm ²	35			
9	Conductor Diameter	mm	7.5			
10	No. of Mech. Compression		2			
11	Dimensions		as Below Drawing			
13	Test certificate	_	Required			



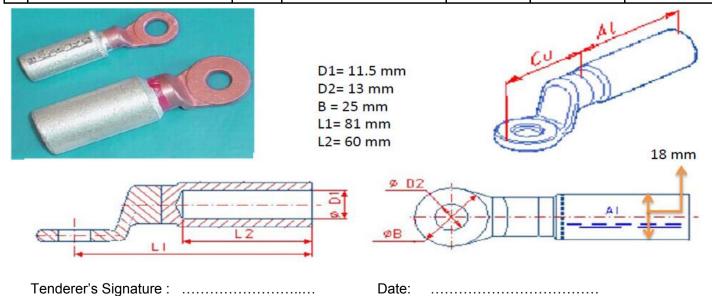


b= 21 mm

I = 42 mm

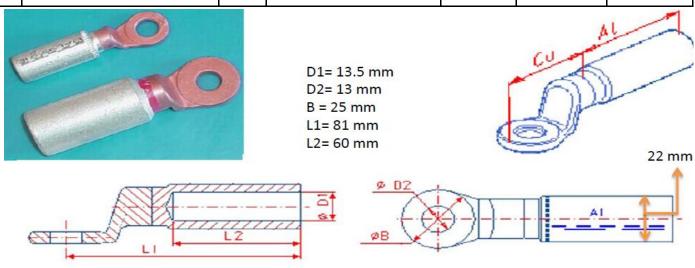
Aluminium / Copper Compression Terminal Lug with 13 mm Hole for 70 mm² Aluminium Conductor

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Reference Standards					
	Material					
4	a) Barrel Part		Aluminium of Purity Equal to or Greater than 99.5%			
4	b) Palm Part		Electrolytic Copper			
	c) Barrel		Capped and Filled with Grease to Avoid Oxidation			
5	Surface		Uncoated			
6	Туре		Resistant to high temperature Connection Between CU and AL sides and the Barrel Compression, Longitudinally Sealed			
7	Conductor Cross Section	mm ²	70			
8	Conductor Diameter	mm	10.5			
9	Dimensions		as below Drawing			



Aluminium / Copper Compression Terminal Lug with 13 mm Hole for 95 mm² Aluminium Conductor

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Reference Standards					
	Material					
	a) Barrel Part		Aluminium of Purity Equal to or Greater than 99.5%			
4	b) Palm Part		Electrolytic Copper			
	c) Barrel		Capped and Filled with Grease to Avoid Oxidation			
5	Surface		Uncoated			
6	Туре		Resistant to high temperature Connection Between CU and AL sides and the Barrel Compression, Longitudinally Sealed			
7	Conductor Cross Section	mm ²	95			
8	Conductor Diameter	mm	12.6			
9	Dimensions		as below Drawing			
10	Test certificate		Required			

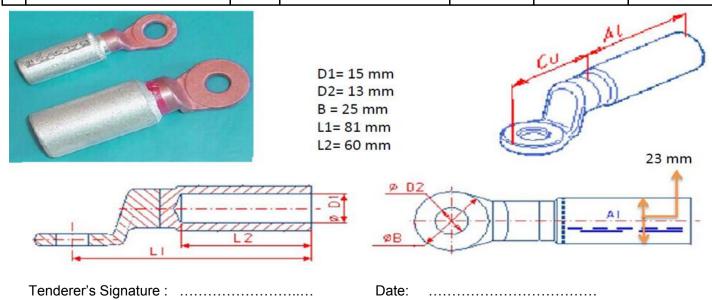


Date:

Tenderer's Signature :

Aluminium / Copper Compression Terminal Lug with 13 mm Hole for 120 mm² Aluminium Conductor

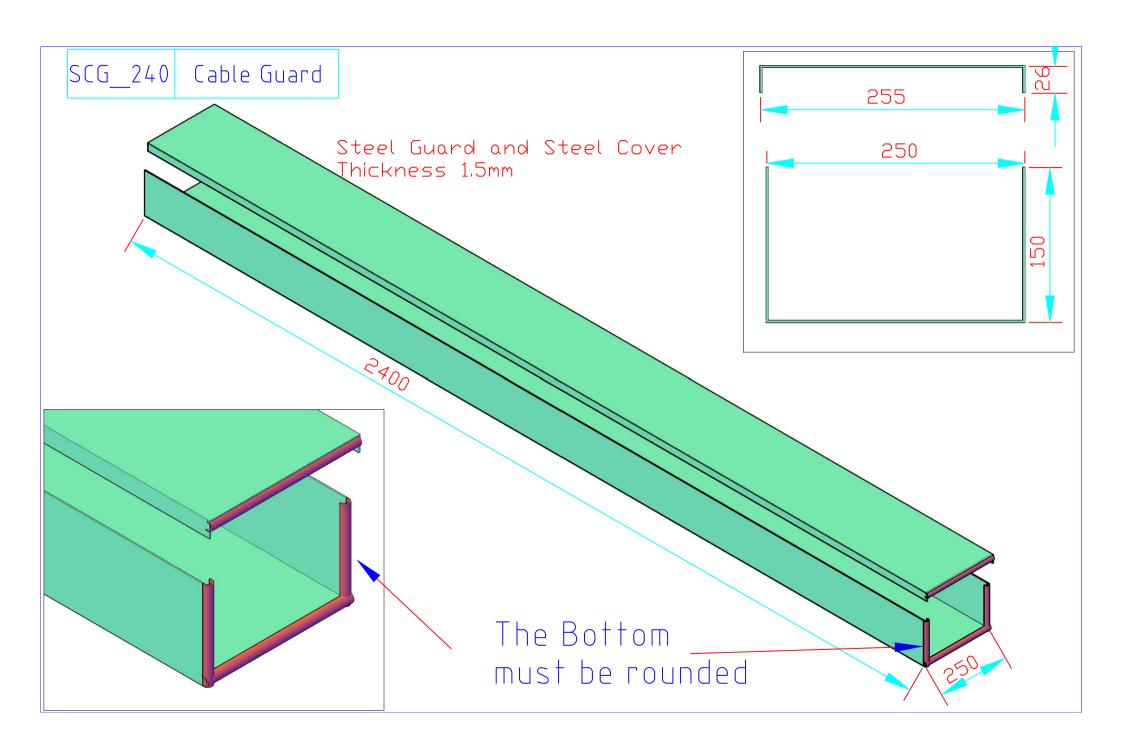
No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Reference Standards					
	Material			•		
4	a) Barrel Part		Aluminium of Purity Equal to or Greater than 99.5%			
4	b) Palm Part		Electrolytic Copper			
	c) Barrel		Capped and Filled with Grease to Avoid Oxidation			
5	Surface		Uncoated			
6	Туре		Resistant to high temperature Connection Between CU and AL sides and the Barrel Compression, Longitudinally Sealed			
7	Conductor Cross Section	mm ²	120			
8	Conductor Diameter	mm	14			
9	Dimensions		as below Drawing			



Hot Galvanized Steel Cable Guard

No	Description	Unit	Requirements Offered Data		Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Description		Cable Guard			
4	Material		Hot Dip Galvanized steel			
5	Steel Guard with Steel Cover		Required			
6	Steel Guard and Steel Cover Length	mm	2400			
7	Steel Guard Width	mm	250			
8	Steel Cover Width	mm	255			
9	Steel Guard Edge Height	mm	150			
10	Cover Edge Height	mm	26			
11	Bottom		Rounded			
12	Steel Guard and Steel Cover Thickness	mm	1.5			
13	Attached Drawing		Drawing			

Tenderer's Signature:		Date:	
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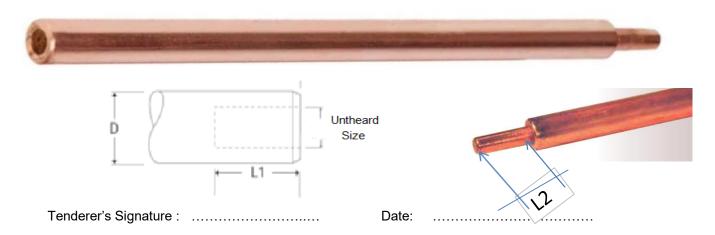


Earth Rod 18 mm Diameter , 1.5 m

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer		Required			
2	Country of Origin		Required			
3	Reference Standards		Required			
4	Description		Earth rod with coupling joint Male-Female			
5	Material		low carbon steel core St-60			
6	Coating		Copper shrink jacket			
7	Coating thickness		Min. 0.3 mm			
8	UnThreaded Size (L2) coupling dowel	mm	Required			
9	UnThreaded Part Length (L2) coupling dowel	mm	Required			
8	UnThreaded Size (L1) hole	mm	Required			
9	UnThreaded Part Length (L1) hole	mm	Required			
10	Length (L)	mm	1500			
11	Shank Diameter (D)	mm	18			
12	WEIGHT	kg	Required			
13	Quality Certification		Required			
14	type test		Required			

Earth Rod 18 mm Diameter , 1.5 m

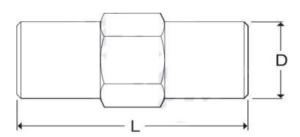
No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
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Earth Rod Joint

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Reference Standards					
4	Material		high strength copper content Aluminium Bronze alloy			
5	Size		5/8"			
6	Length (L)	mm	70			
7	Outside Diameter (D)	mm	20			
8	Test Certifcate		Required			





Tenderer's Signature :	. Date:
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Warning Tape

No	Description	Unit	Requirements Offered Data		Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Description		Warning Tape			
4	Material		Low Density Polyethylene			
5	Roll Length	meter	250			
6	Width	mm	150			
7	Minimum Thickness	mm	0.1			
8	Printed Legend (2 Language)	English	CAUTION CAUTION CAUTION Electrical Cables Buried Below			
		Arabic	تحذیر تحذیر خطر کابل کهرباء			
9	Tape Colour		Phosphoric Yellow			
10	Text Colour		Dark Black			
11	Text Form		Big			
12	Space Between Text	mm	100			
13	Resistant		Acid / Alkali Resistant			
14	test certificate		Required			

	100 mm	1		
Caution Caution Caution Electric Cable Below تحفیر تحفیر تحفیر خطر کابل کهرباء		Caution Caution Caution Electric Cable Below تحفیر تحفیر خطر کابل کھرہاء	4	150 mm

Date:

Warning Tape/4/18/2020/1/1

Tenderer's Signature :

Stainless Steel Band

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Standards					
4	Material		201 Stainless Steel			
5	Coil		The steel band Roll Must be properly coiled on Reinforced weatherproof plastic Totes			
6	Width	mm	12.7			
7	Thickness	mm	0.76			
8	Cabbaged Length on the tote	m	30			
9	Test Certificate		Required			



Department of Standards and Metrology Band/22/04/2020/1/1

Stainless Steel Ear-Lokt Buckle

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Standards					
4	Description		Buckle to hold wrapped band for cable bundling			
5	Construction		with teeth and ears provide for maximum clamping strength			
6	Material		201 Stainless Steel			
7	Entry Slot High (for Band Thickness 0.76mm)	mm	2.3			
8	Min. Width (for Band Width 12.7mm)	mm	15			
9	Test Certificate		Required			

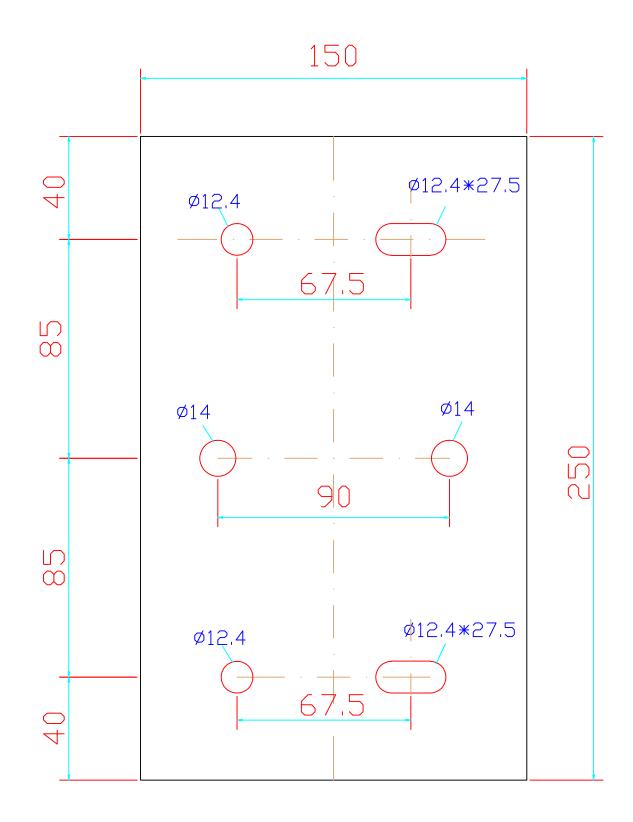




Tenderer's Signature : Date: Date:	
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Department of Standards and Metrology BUCKLE/22/04/2020/1/1

PMV_250 Plate for M.V Cable



Bolts Required for installation on the Arm

2 UNC Bolt 1/2"*35mm



Unit mm mesurment	Description		Item	Quant.
250	Plate		1	1

Plate for M.V Cable

Nots: All component must be Steel 37.2 hot dip galvanized