

## Konstruksi SUTM Tiang Awal (Riser Pole) TM - 11

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		Strain Rod Insulator 20 KV	Pcs	3	
2.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tarik )	Pcs	2	
3.		Double Arm Bolt & Nut M16x400 + Washer	Set	4	
4.		Arm Tie Type 750 Pipe.Ø 3/4"	Pcs	2	
5.		Line Tap Connector	Set	3	
6.		Double Arm Band + Nut & Washer	Set	-	
7.		U Strap	Set	3	
8.		HV Band Strap / Cross Arm Clevis / Susp. VEE	Set	3	
9.		Jumper Wire 80 mm / MV Insulated Conductor / NYAF	Mtr	6	
10.		Dead And/Strain Clamp/Preformet Term+Thible	Set	3	
11.		Bolt & Nut M16 x 140 + Washer	Pcs	3	
12.		Lightning Arrestor 20 kV	Set	3	
13.		Mounting Bracket For Arrestor	Set	3	
14.		Cable Band + Nut & Washer	Set	3	
15.		Copper Tube / Cable Schoen	Pcs	10	
16.		NYA 25 mm2	Mtr	4,5	
17.		Ground Wire Clamp type B + bolt, Preformed, couseen	Set	1	



PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR

### KONSTRUKSI SUTM TIANG AWAL (RISER POLE)

TM - 11

di gambar : Mudjianto  
Assist. Manager Konst. Dist.  
Disetujui : Adriansyah  
Senior Manager Distribusi

### KONSTRUKSI JARINGAN SUTM

No. Gbr : JTM/SUTM/022	
Edisi	2020
	001

## Konstruksi SUTM Tiang Awal (Riser Pole) dengan DS TM - 11DS

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		Long Rod Insulator 20 KV	Pcs	3	
2.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tarik )	Pcs	5	
3.		Double Arm Bolt & Nut M16x400 + Washer	Set	6	
4.		Arm Tie Type 750 Pipe.Ø 3/4"	Pcs	4	
5.		Cross Arm 2000 NP 8 untuk dudukan Arrestor	Set	1	
6.		Double Arm Band + Nut & Washer	Set	1	
7.		U Strap	Set	3	
8.		HV Band Strap / Cross Arm Clevis / Susp. VEE	Set	3	
9.		Single Arm Band + Nut & Washer	Pcs	1	
10.		Dead And Clamp/Strain Clamp/Preformet Term+Thimble	Set	3	
11.		Bolt & Nut M16 x 140 + Washer	Pcs	3	
12.		Lightning Arrestor 20 kV	Set	3	
13.		DS Outdoor 24 kV - 630 A – 16 kA – BIL 125 kV	Set	1	
14.		Cable Band + Nut & Washer	Set	2	
15.		Pipe Band + Nut & Washer	Set	1	
16.		Copper Tube / Cable Schoen 150 mm	Pcs	6	
17.		Ground Wire Clamp type B + bolt, Preformed, couseen	Set	1	



PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR

### KONSTRUKSI SUTM TIANG AWAL (RISER POLE) DENGAN DS

TM-  
11DS

di gambar : Mudjianto  
Assist. Manager Konst. Dist.  
Disetujui : Adriansyah  
Senior Manager Distribusi

### KONSTRUKSI JARINGAN SUTM

No. Gbr : JTM/SUTM/024	
Edisi	2020
	001

## Konstruksi SUTM Tiang Awal (Riser Pole) Eksisting Lurus dengan Cut Out Switch TM - 4XC

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tarik )	Pcs	2	
2.		Bolt & Nut M16x400 + Washer (Double Arm)	Set	2	
3.		Double Arm Band & Nut + Washer	Set	1	
4.		Arm Tie Type 750 Pipe Ø 3/4"	Pcs	2	
5.		Arm Tie Band + Bolt & Nut M.16x50	Set	1	
6.		Bolt & Nut M140 + Washer	Set	3	
7.		Long Rod Insulator 20 KV	Set	3	
8.		Strain Clamp / Preformet Term.	Pcs	3	
9.		Cut Out Switch 22 kV-100 A + Bracket	Set	3	
10.		Cross Arm Clevis / HV Band Strap	Set	3	
11.		Terminal Lug Cu / Al	Pcs	6	
12.		Wire Clip M 6	Pcs	4	
11		Preformed, couseen	Set	1	



PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR

KONSTRUKSI SUTM TIANG AWAL (RISER POLE)  
EKSISTING LURUS DENGAN CUT OUT SWITCH

di gambar : Mudjianto  
Assist. Manager Konst. Dist.  
Disetujui : Adriansyah  
Senior Manager Distribusi

No. Gbr: JTM/SUTM/007  
Edisi 2020  
001

**KONSTRUKSI JARINGAN SUTM**

**TM – 4XC**

## Konstruksi SUTM Tiang Awal (Riser Pole) Existing Tengah TM - 8X

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		20 KV Pin Post Insulator	Pcs	1	
2.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tarik )	Pcs	2	
3.		Bolt & Nut M16x400 + Washer (Double Arm)	Pcs	2	
4.		Arm Tie Type 750 Pipe Ø 3/4"	Pcs	2	
5.		Arm Tie Band , Nut M16 + Washer	Set	1	
6.		Long Rod Insulator 20 KV	Pcs	3	
7.		Line Tap Connector	Pcs	3	
8.		Band Strap / Cross Arm Clevis / Susp. Eye	Pcs	3	
9.		Bolt & Nut M16x140 + Washer	Pcs	3	
10.		Double Arm Band + Bolt & Nuts + Washer	Pcs	1	
11.		Dead end/Strain Clamp/PreformedTermination	Set	3	
12.		Semi Cond. Preformed Side Tie	Pcs	1	
13.		Semi Cond. Preformed Side Tie Double	Pcs	0	
14.		Preformet Top Tie 240/150/70/35 Sqmm	Pcs	1	
15.		Ground Wire Clamp type C + bolt, Preformed, couseen	Set	1	
16.		Wire Clip M.6	Pcs	4	



PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR

KONSTRUKSI SUTM TIANG AWAL (RISER POLE)  
EXSISTING TENGAH

di gambar : Mudjianto  
Assist. Manager Konst. Dist.  
Disetujui : Adriansyah  
Senior Manager Distribusi

No. Gbr: JTM/SUTM/014  
Edisi 2020  
001

**KONSTRUKSI JARINGAN SUTM**

**TM – 8X**

## Konstruksi Tiang Penyangga dan Tarik Existing dilengkapi Cut Out Switch TM - 8XC

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		Cross Arm type - 2000 ( tumpu )	Pcs		
2.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tarik )	Pcs	2	
3.		Bolt & Nut M16x400 + Washer (Double Arm)	Pcs	2	
4.		Arm Tie Type 750 Pipe Ø 3/4"	Pcs	2	
5.		Arm Tie Band , Nut + Washer	Pcs	1	
6.		Bolt & Nut M16x140 + Washer	Pcs	3	
7.		Long Rod Insulator 20 KV	Pcs	3	
8.		Dead end/Strain Clamp/PreformedTermination	Pcs	3	
9.		Terminal Lug 150 - Cu / Al	Pcs	6	
10.		Band Strap / Cross Arm Clevis / Susp. Eye	Pcs	3	
11.		Line Tap / H Connector	Pcs	3	
12.		Cut Out Switch 22KV / 100 A + Bracket	Pcs	3	
13.		Fuse Link 100 A	Pcs	3	
14.		Double Arm Band + Bolt & Nuts + Washer	Pcs	1	
15.		Wire Clip M.6	Pcs	4	
16.		Ground Wire Clamp type C + bolt, Preformed, couseen	Set		

 <b>PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR</b>	<b>KONSTRUKSI TIANG PENYANGGA &amp; TARIK EXSISTING</b> <b>DILENGKAPI CUT OUT SWITCH</b>	
di gambar : <b>Mudjianto</b> Assist. Manager Konst. Dist. Disetujui : <b>Adriansyah</b> Senior Manager Distribusi	<b>KONSTRUKSI JARINGAN SUTM</b>	No. Gbr : <b>JTM/SUTM/016</b> Edisi <b>2020</b> <b>001</b>
		<b>TM - 8XC</b>

## Konstruksi SUTM Tiang Awal (Riser Pole) Existing Sudut TM - 10X

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		20 KV Pin Post Insulator	Pcs	2	
2.		Long Rod Insulator 20 KV	Pcs	3	
3.		Bolt & Nut M16x400 + Washer (Double Arm)	Pcs	2	
4.		Arm Tie Type 750 Pipe Ø 3/4"	Pcs	2	
5.		Arm Tie Band , Nut M16 + Washer	Pcs	1	
6.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tarik )	Pcs	2	
7.		Line Tap Connector	Pcs	3	
8.		Band Strap / Cross Arm Clevis / Susp. Eye	Pcs	3	
9.		Bolt & Nut M16x140 + Washer	Pcs	3	
10.		Double Arm Band + Bolt & Nuts + Washer	Pcs	1	
11.		Dead end/Strain Clamp/PreformedTermination	Set	3	
12.		Semi Cond. Preformed Side Tie	Pcs	2	
13.		Semi Cond. Preformed Side Tie Double	Pcs	0	
14.		Preformat Top Tie 240/150/70/35Sqmm	Pcs	2	
15.		Ground Wire Clamp type C + bolt, Preformed, couseen	Set	1	
16.		Wire Clip M.6	Pcs	4	

 <b>PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR</b>	<b>KONSTRUKSI SUTM TIANG AWAL (RISER POLE)</b> <b>EXISTING SUDUT</b>	
di gambar : <b>Mudjianto</b> Assist. Manager Konst. Dist. Disetujui : <b>Adriansyah</b> Senior Manager Distribusi	<b>KONSTRUKSI JARINGAN SUTM</b>	No. Gbr : <b>JTM/SUTM/019</b> Edisi <b>2020</b> <b>001</b>
		<b>TM - 10X</b>

## Konstruksi SUTM Tiang Awal (Riser Pole) Existing Sudut TM - 10XC

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tarik )	Pcs	2	
2.		Double Arm Bolt & Nut M16x400+Washer	Set	2	
3.		Double Arm Band + Nut & Washer	Set	1	
4.		Arm Tie Type 750 Pipe Ø 3/4"	Set	2	
5.		Arm Tie Band Bolt + Nut M16	Set	1	
6.		Bolt & Nut M16x140 + Washer	Set	3	
7.		Long Rod Insulator 20 KV	Set	3	
8.		Strain Clamp	Set	3	
9.		LineTap Connector 150/70/35	Pcs	3	
10.		Cross Arm Clevis	Set	3	
11.		Terminal Lug 150 - Cu/Al	Pcs	6	
12.		Cut Out Switch 22kV/100A+Fuse 8A+Bracket	Set	3	
13.		20 KV Pin Post Insulator	Set	2	
14.		Semi Cond. Preformed Side Tie	Pcs	2	
15.					
16.		Preformat Top Tie 150/70/35	Mtr	3	
17.		Ground Wire Clamp type C + bolt, Preformed, couseen	Set	1	
18.		Wire Clip M.6	Pcs	4	

	PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR		TM – 10XC
	KONSTRUKSI SUTM TIANG AWAL (RISER POLE) EXISTING SUDUT		
di gambar : Mudjianto Assist. Manager Konst. Dist. <i>[Signature]</i>	No. Gbr: JTM/SUTM/021 2020 Edisi 001		
Disetujui : Adriansyah Senior Manager Distribusi <i>[Signature]</i>	KONSTRUKSI JARINGAN SUTM		

## Konstruksi SUTM Tiang Penumpu (Line Pole) TM - 1

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tumpu )	Pcs	1	
2.		Arm Tie Type 750 Pipe Ø 3/4"	Pcs	1	
3.		Bolt & Nut M16x400 + Washer (Double Arm)	Set	2	
4.		Bolt & Nut M16x50 + Washer	Set	1	
5.		20 KV Pin Post Insulator	Set	3	
6.		Semi conductif Preformed Top Tie	Set	3	
7.		-	Mtr	-	
8.		-	-	-	
9.		Ground Wire Clamp type A + Bolt, Wire Clip	Set	1	

	PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR		TM-1
	KONSTRUKSI SUTM TIANG PENUMPU (LINE POLE)		
di gambar : Mudjianto Assist. Manager Konst. Dist. <i>[Signature]</i>	No. Gbr: JTM/SUTM/001 2020 Edisi 001		
Disetujui : Adriansyah Senior Manager Distribusi <i>[Signature]</i>	KONSTRUKSI JARINGAN SUTM		

## Konstruksi SUTM Tiang Penumpu (Line Pole) dengan Lightning Arrester TM - 1A

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tumpu )	Pcs	1	
2.		Arm Tie Type 750 Pipe Ø 3/4"	Pcs	1	
3.		Bolt & Nut M16x400 + Washer (Double Arm)	Set	2	
4.		Bolt & Nut M16x50 + Washer	Set	1	
5.		20 KV Pin Post Insulator	Set	3	
6.		Semi Cond. Top Tie	Pcs	3	
7.					
8.		Preformed Top Tie 240/150/70/35	Pcs	3	
9.		Ground Wire Clamp type A + Bolt, Wire Clip	Set	1	
10.		Lightning Arrester 10 A – 24 kV	Set	1	



PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR

**KONSTRUKSI SUTM TIANG PENUMPU (LINE POLE)  
DENGAN LIGHTNING ARRESTER**

di gambar : Mudjianto  
Assist. Manager Konst. Dist. *[Signature]*

Disetujui : Adriansyah  
Senior Manager Distribusi *[Signature]*

No. Gbr : JTM/SUTM/033

Edisi	2020
	001

TM-1A

## Konstruksi SUTM Tiang Sudut Kecil (0 derajat sampai 15 derajat) TM - 1 + Supp

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tumpu )	Pcs	1	
2.		Arm Tie Type 750 Pipe Ø 3/4"	Pcs	1	
3.		Bolt & Nut M16x400 + Washer (Double Arm)	Set	2	
4.		Bolt & Nut M16x50 + Washer	Set	1	
5.		20 KV Pin Post Insulator	Set	3	
6.		Semi conductif Preformed Top Tie	Set	3	
7.		-	Mtr	-	
8.		-	-	-	
9.		Ground Wire Clamp type A + Bolt, Wire Clip	Set	1	



PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR

**KONSTRUKSI SUTM TIANG SUDUT KECIL ( 0° S/D 15° )**

di gambar : Mudjianto  
Assist. Manager Konst. Dist. *[Signature]*

Disetujui : Adriansyah  
Senior Manager Distribusi *[Signature]*

No. Gbr : JTM/SUTM/001a

Edisi	2020
	001

TM-1  
+  
Supp.

## Konstruksi SUTM Tiang Sudut Sedang (15 derajat sampai 30 derajat) Menggunakan PIN Post Insulator TM - 2

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tumpu )	Pcs	2	
2.		Arm Tie Type 750 Pipe O 3/4"	Pcs	2	
3.		Bolt & Nut M16x400 + Washer (Double Arm)	Set	3	
4.		20 KV Pin ( Pin Post ) Insulator + Steel Pin	Pcs	6	
5.		Semi Conductif Preformed Side Tie Double	Set	3	
6.		-	Mtr	-	
7.		-	-	-	
8.		Ground Wire Clamp type B + bolt, Preformed, couseen	Set	1	



**PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR**

**KONSTRUKSI SUTM TIANG SUDUT SEDANG ( 15° S/D 30° ) –  
MENGGUNAKAN PIN POST INSULATOR**

di gambar : Mudjianto  
Assist. Manager Konst. Dist.  
Disetujui : Adriansyah  
Senior Manager Distribusi

**TM - 2**

No. Gbr : JTM/SUTM/002

Edisi	2020
	001

## Konstruksi SUTM Tiang Sudut Sedang (15 derajat sampai 30 derajat) Menggunakan Strain Rod Insulator TM - 5 1 Supp

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		20 KV Pin Post Insulator	Pcs	1	
2.		Long Rod Insulator 20 KV	Set	6	
3.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tarik )	Pcs	2	
4.		Arm Tie Type 750 ( Pipe 3/4 " )	Set	2	
5.		Bolt & Nuts M16 x 140 + Washer	Set	6	
6.		Susp.VEE / Cross Arm Clevis / Band Strap	Pcs	6	
7.		Non Tension Joint	Pcs	3	
8.		Dead End Clamp / Preformed Term + Thimble	Pcs	6	
9.		Bolt & Nut M16x400 + Washer (Double Arm)	Set	4	
10.		U Strap	Pcs	2	
11.					
12.					
13.		Semi Cond. Preformed Top Tie	Pcs	1	
14.		Ground Wire Clamp type B + bolt, Preformed, couseen	Set	1	



**PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR**

**KONSTRUKSI TIANG SUDUT SEDANG ( 15° S/D 30° ) –  
MENGGUNAKAN STRAIN ROD INSULATOR**

di gambar : Mudjianto  
Assist. Manager Konst. Dist.  
Disetujui : Adriansyah  
Senior Manager Distribusi

**TM – 5  
1 Supp.**

No. Gbr : JTM/SUTM/002a

Edisi	2020
	001

# Konstruksi SUTM Tiang Sudut Besar (60 derajat sampai 90 derajat) TM - 10

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		20 KV Pin Post Insulator	Pcs	2	
2.		Long Rod Insulator 20 KV	Pcs	6	
3.		Bolt & Nut M16x400 + Washer (Double Arm)	Pcs	6	
4.		Arm Tie Type 750 Pipe Ø 3/4"	Pcs	4	
5.		Arm Tie Band , Nut M16 + Washer	Pcs	1	
6.		U Strap	Pcs	1	
7.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tarik )	Pcs	4	
8.		Line Tap Connector/ HH Connector	Pcs	3	
9.		Band Strap / Cross Arm Clevis / Susp. VEE	Pcs	6	
10.		Bolt & Nut M16x140 + Washer	Pcs	6	
11.		Double Arm Band + Bolt & Nuts + Washer	Set	1	
12.		Dead end/Strain Clamp/PreformedTermination	Set	6	
13.		Semi Conductif Preformed Side Tie	Set	2	
14.		-	-	-	
15.		-	-	-	
16.		Ground Wire Clamp type C + bolt, Preformed, couseen	Set	1	
17.					



PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR

## KONSTRUKSI SUTM TIANG SUDUT BESAR ( 60° S/D 90° )

di gambar : Mudjianto  
Assist. Manager Konst. Dist.

Diseutujui : Adriansyah  
Senior Manager Distribusi

## KONSTRUKSI JARINGAN SUTM

No. Gbr : JTM/SUTM/018

2020

Edisi

001

TM - 10

## Konstruksi SUTM Tiang Sudut Besar (60 derajat sampai 90 derajat) dengan Cut Out Switch TM - 10C

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tarik )	Pcs	4	
2.		Double Arm Bolt & Nut M16x400+Washer	Set	6	
3.		Double Arm Band + Nut & Washer	Set	1	
4.		Arm Tie Type 750 Pipe Ø 3/4"	Set	4	
5.		Arm Tie Band Bolt + Nut M16 & Washer	Set	1	
6.		Bolt & Nut M16x140 + Washer	Set	6	
7.		Long Rod Insulator 20 KV	Set	6	
8.		Strain Clamp	Set	6	
9.		Terminal Lug 150 - Cu/Al	Pcs	3	
10.		Cross Arm Clevis	Set	6	
11.		U Strap	Pcs	1	
12.		Cut Out Switch 22kV/100A+Fuse 8A+Bracket	Set	3	
13.		20 KV Pin Post Insulator	Set	1	
14.		Semi Cond. Preformed Side Tie	Pcs	1	
15.					
16.		Preformat Top Tie 240/150/70/35	Pcs	2	
17.		Line Tap Connector	Pcs	-	
18.		Ground Wire Clamp type C + bolt, Preformed, couseen	Set	1	
19.		Wire Clip M.6	Pcs	4	

 <b>PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR</b>	<b>KONSTRUKSI SUTM TIANG SUDUT BESAR ( 60° S/D 90° ) DENGAN CUT OUT SWITCH</b>	
<b>TM – 10C</b>		
di gambar : <b>Nudjianto</b> Assist. Manager Konst. Dist. Disetujui : <b>Adriansyah</b> Senior Manager Distribusi	No. Gbr : <b>JTM/SUTM/020</b> Edisi 2020 001	
<b>KONSTRUKSI JARINGAN SUTM</b>		

## Konstruksi SUTM Tiang Percabangan (Tee - Off Pole) TM - 8

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		20 KV Pin Post Insulator	Pcs	4	
2.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tumpu )	Pcs	1	
3.		Bolt & Nut M16x400 + Washer (Double Arm)	Pcs	4	
4.		Arm Tie Type 750 Pipe Ø 3/4"	Pcs	3	
5.		Arm Tie Band , Nut , Washer	Set	1	
6.		U Stráp	Pcs	1	
7.		Long Rod Insulator 20 KV	Pcs	3	
8.		Line Tap Connector	Pcs	3	
9.		Band Strap / Cross Arm Clevis / Susp. VEE.	Pcs	3	
10.		Bolt & Nut M140 + Washer	Pcs	3	
11.		Double Arm Band + Bolt & Nuts + Washer	Set	1	
12.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tarik )	Set	2	
13.		Dead end/Strain Clamp/PreformedTermination	Pcs	3	
14.		Semi Cond. Preformed Side Tie	Pcs	1	
15.		Semi Cond. Preformed Top Tie	Pcs	3	
16.		Preformat Top Tie 240/150/70/35 Sqmm	Pcs	4	
17.		Ground Wire Clamp type C + bolt, Preformed, couseen	Set	1	
18.		Wire Clip M.6	Pcs	4	



PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR

### KONSTRUKSI SUTM TIANG PERCABANGAN (TEE – OFF POLE)

di gambar : **Mudjianto**  
Assist. Manager Konst. Dist.  
Disetujui : **Adriansyah**  
Senior Manager Distribusi

KONSTRUKSI JARINGAN SUTM

No. Gbr : JTM/SUTM/012	
Edisi	2020
	001

**TM - 8**

## Konstruksi SUTM Tiang Percabangan (Tee - Off Pole) Sudut Sedang TM - 8A

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		20 KV Pin Post Insulator	Pcs	7	
2.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tumpu )	Pcs	2	
3.		Bolt & Nut M16x400 + Washer (Double Arm)	Pcs	6	
4.		Arm Tie Type 750 Pipe Ø 3/4"	Pcs	3	
5.		Arm Tie Band , Nut , Washer	Set	1	
6.		U Strap	Pcs	1	
7.		Long Rod Insulator 20 KV	Pcs	3	
8.		Line Tap Connector	Pcs	3	
9.		Band Strap / Cross Arm Clevis / Susp. VEE.	Pcs	3	
10.		Bolt & Nut M140 + Washer	Pcs	3	
11.		Double Arm Bend + Bolt & Nuts + Washer	Set	1	
12.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tarik )	Set	2	
13.		Dead end/Strain Clamp/PreformedTermination	Pcs	3	
14.		Semi Cond. Preformed Side Tie	Pcs	1	
15.		Semi Cond. Preformed Side Tie Double	Pcs	3	
16.		Preformat Top Tie 240/150/70/35 Sqmm	Pcs	4	
17.		Ground Wire Clamp type C + bolt, Preformed, couseen	Set	1	
18.		Wire Clip M.6	Pcs	4	

	PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR		TM - 8A
	KONSTRUKSI TIANG PENCAKABANGAN (TEE – OFF POLE) SUDUT SEDANG		
di gambar : Mudjianto Assist Manager Konst. Dist. <i>[Signature]</i>	No. Gbr : JTM/SUTM/013	2020	
Disetujui : Adriansyah Senior Manager Distribusi <i>[Signature]</i>	Edisi	001	
KONSTRUKSI JARINGAN SUTM			

## Konstruksi SUTM Tiang Akhir (End Pole) TM - 4

No.	NOMOR SAP	NAMA MATERIAL	SAT	KEBUTUHAN	KETERANGAN
1.		Strain Rod Insulator 20 KV	Set	3	
2.		Cross Arm NP – 10 tebal min 5,0 2000 ( type tarik )	Pcs	2	
3.		Arm Tie Type 750 Pipe Ø 3/4"	Pcs	2	
4.		Bolt & Nut M16x400 + Washer (Double Arm)	Set	4	
5.		U Strap	Pcs	1	
6.		Cross Arm Clevis	Pcs	3	
7.		Bolt & Nut M16x120 + Washer	Set	3	
8.		Dead End Clamp ( Strain Clamp )	Set	3	
9.		Ground Wire Clamp type B + bolt, Preformed, couseen	Set	1	

	PT PLN ( PERSERO ) UNIT INDUK DISTRIBUSI JAWA TIMUR		TM - 4
	KONSTRUKSI SUTM TIANG AKHIR (END POLE)		
di gambar : Mudjianto Assist Manager Konst. Dist. <i>[Signature]</i>	No. Gbr : JTM/SUTM/004	2020	
Disetujui : Adriansyah Senior Manager Distribusi <i>[Signature]</i>	Edisi	001	
KONSTRUKSI JARINGAN SUTM			