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1 Scope

This specification covers the requirement of an anchorage, for a pole of an aerial route when the pole is subjected to an angle pull or a longitudinal pull due to the tension and weight of the cable.

2 References

OSP Manual - 2009

3 Materials and Construction

3.1 Pole Attachment

The pole attachment should be made of mild steel and confirm to ISO 630 of 1995 (B.S.4360 of 1990 Grade 43 E).

3.2 Cable Hanger Bracket

The cable hanger bracket should be made of cast iron and confirm to B.S.1452 of 1977.

4 Characteristics and Requirements

4.1 Mechanical Properties of Pole Attachment

4.1.1 The Minimum Yield Strength - **275 N/mm^2**

4.1.2 The Ultimate Tensile Strength - **430 ~580 N/mm^2**

4.1.3 The Minimum Elongation - **34%**

It is necessary to galvanize the item from M/s Lanka Transformer Ltd to confirm that the item is galvanized properly.

The galvanized thickness of all components shall not be less than 250g/m^2

The dimensions of different aerial cable fittings for circular spun cast poles are given in following drawings;

The dimension of Pole Attachment for Aerial Cable Straight Fittings and Mild Angle Fittings are given in Drawing No: **OSPA 150**
The dimension of Sharped Angle Fitting for Aerial Cables is in Drawing No: **OSPA 151**
The dimension of Terminal Fitting for Aerial Cables is in Drawing No: **OSPA 152**
The dimension of Cable Hanger Bracket for Straight Fittings are given in **Drawing No: CD 519**
The dimension of Cable Hanger Bracket for Mild Angle Fittings are given in **Drawing No: CD 523**

5 Marking

The following indelible marking shall be made on the surface of the Aerial Cable Fitting and be clearly seen.

5.1.1 Manufacturer's Name

5.1.2 Month and year of Manufacture

5.1.3 SLT Logo – Specifications of currently valid SLT Logo shall be collected from SLT Procurement Division for tender purposes.

6 Methods of Test

Samples shall be tested according to the specification given in compliance sheet and shall be submitted for compliance.

6.1 Compliance Sheet – to be checked at QA Section – in Page 4

6.2 Compliance Sheet – submitted by the supplier for tender purposes – in Page 5

6.3 Certificates for Specification Compliance

The supplier shall submit a test certificate(s) to conform all parameters mentioned in this specification from a local institute such as following:

6.3.1 University of Moratuwa

6.3.2 ITI Sri Lanka

6.3.3 Sri Lanka Standards Institute

6.3.4 Arthur C. Clarke Institute for Modern Technologies, Katubedda, Moratuwa

The cost of above testing shall be borne by the supplier.

6.4 Field Test Report

– See the format below.

Field Test Report – to be filled by the field staff at the Installation		
No	**Observations/ Experience at the Installation/ subsequent**	**Comment**
1.	Damaged at the installation	Yes/ No
2.	Can be fixed properly	Yes/ No
3.	Corroded after (mention the period)	……..months/ at the installation
4.	Recommendation to install in SLT network	Recommended/ Not Recommended
5.	Signature……	Date:……

7 Compliance Sheet – To be checked at Quality Assurance Division

Mechanical Properties

Condition	Standard values	Test Values	Remarks
Min. Yield Strength	275 N/mm^2		
Ultimate tensile Strength	430 ~ 580 N/mm^2		
Min. Elongation	34%		

Marking		
Manufactures' Name		
Date of Manufacture		
SLT Logo		
Materials are according to the Specification (if not state below)		
Dimensions are according to the Specification (if not state below)	Pole attachment	
	Straight Fitting	
	Mild Angle fitting	
	Sharp Angle fitting	
	Terminal fitting	
Other Requirements	Galvanization Certificate is submitted with the lot	

Table 1 Compliance Sheet to be checked at the Quality Inspection

8 Compliance Sheet – To be filled by the supplier for Tenders

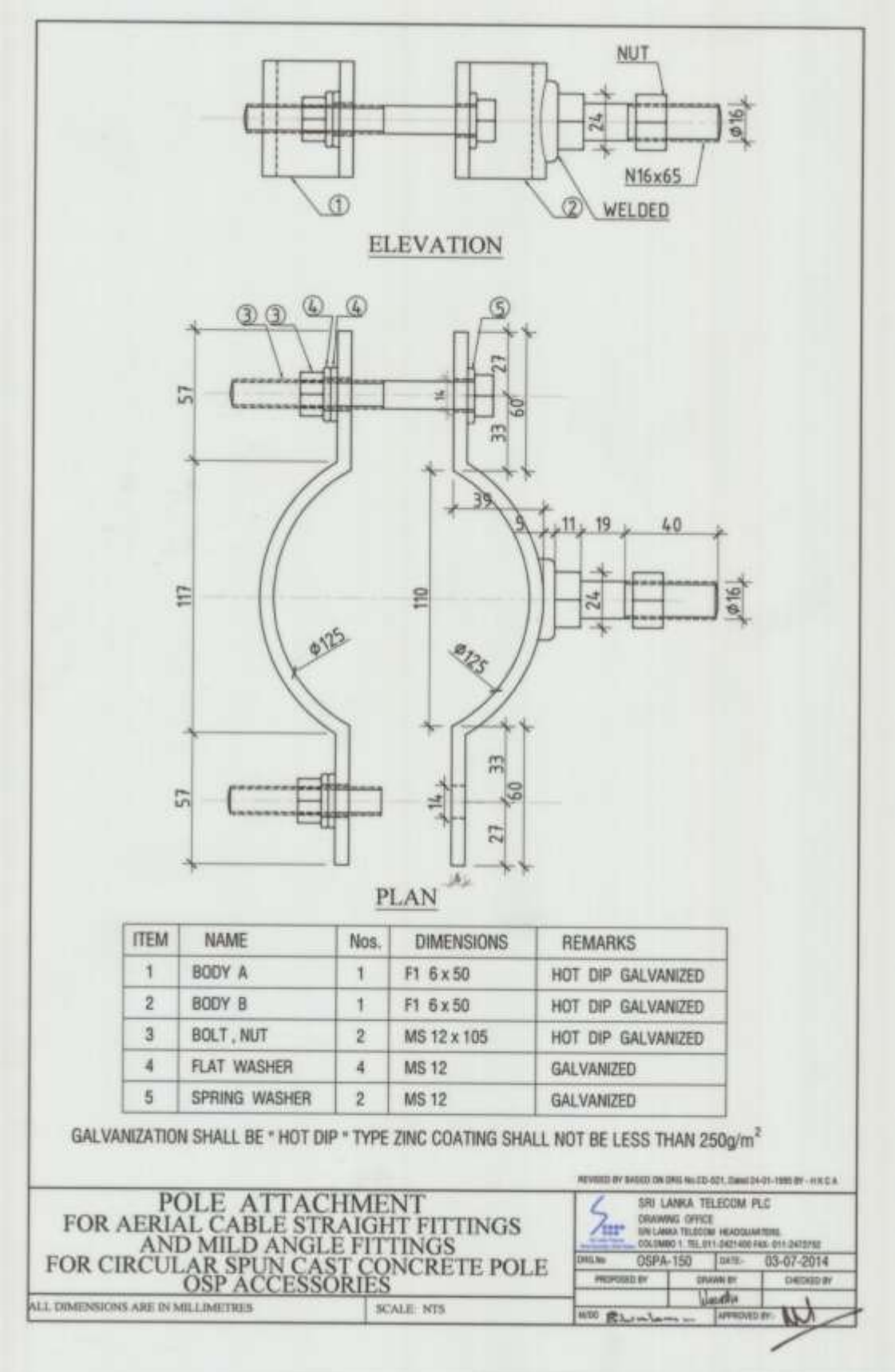
– To be filled by the supplier for Tenders/ Sample submission for Standardisation

Mechanical Properties

Condition	SLT Values	Complied/ Not	Remarks
Min. Yield Strength	275 N/mm^2		
Ultimate tensile Strength	430 ~ 580 N/mm^2		
Min. Elongation	34%		
Marking			
Manufacturer's Name	Yes		
Month & Year of Manufacture	Yes		
SLT Logo	Yes		
Materials are according to the Specification	Yes		

	Item Description	Complied/ Not
Dimensions are according to the Specification (if not state below)	Pole attachment	
	Straight Fitting	
	Mild Angle fitting	
	Sharp Angle Fitting	
	Terminal Fitting	
Other Requirements	Galvanization Certificate will be submitted with the lot	

Signature of Supplier……Date ……



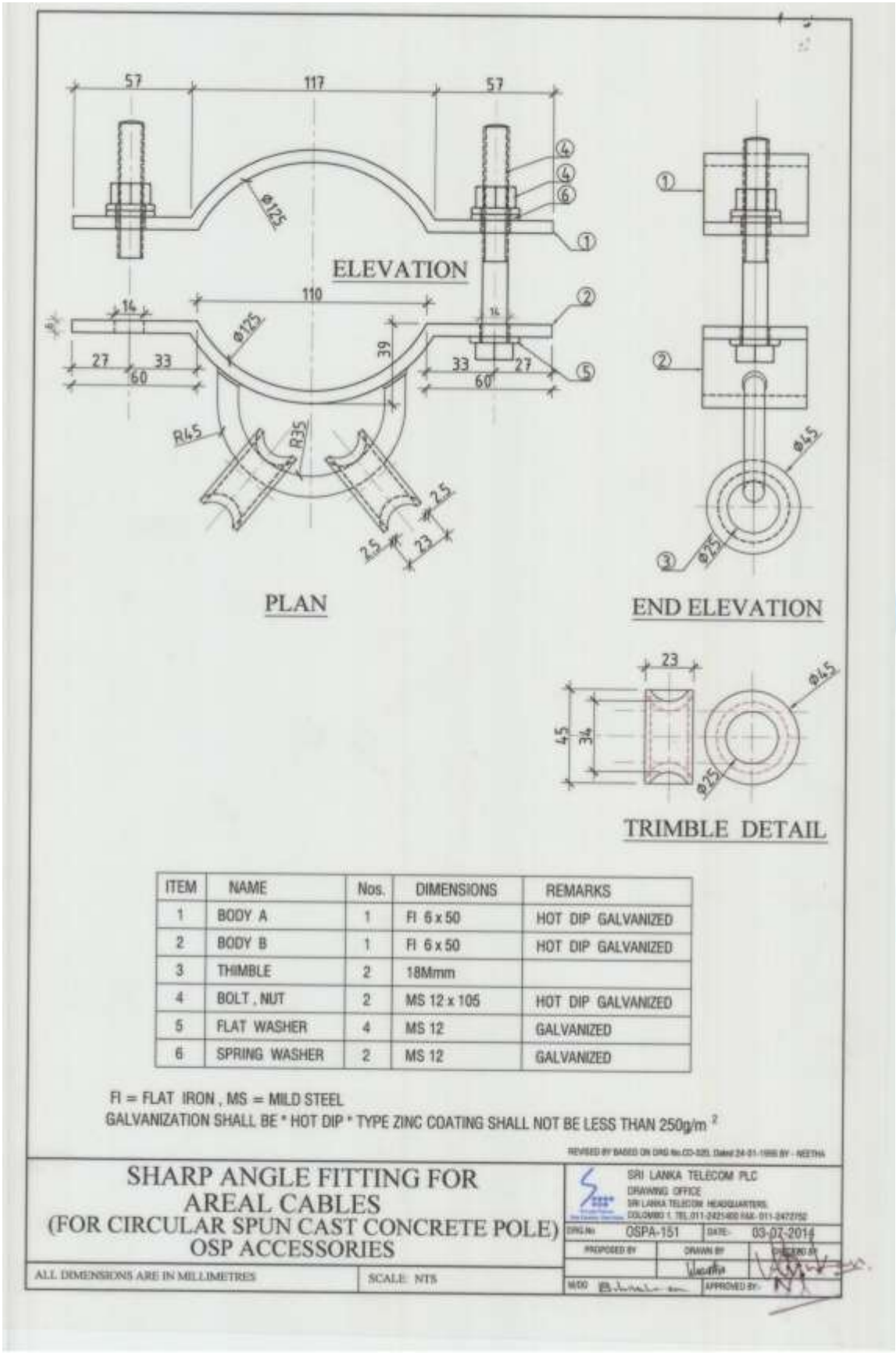
ITEM	NAME	Nos.	DIMENSIONS	REMARKS
1	BODY A	1	F1 6 x 50	HOT DIP GALVANIZED
2	BODY B	1	F1 6 x 50	HOT DIP GALVANIZED
3	BOLT , NUT	2	MS 12 x 105	HOT DIP GALVANIZED
4	FLAT WASHER	4	MS 12	GALVANIZED
5	SPRING WASHER	2	MS 12	GALVANIZED

GALVANIZATION SHALL BE " HOT DIP " TYPE ZINC COATING SHALL NOT BE LESS THAN 250g/m^2

POLE ATTACHMENT
FOR AERIAL CABLE STRAIGHT FITTINGS
AND MILD ANGLE FITTINGS
FOR CIRCULAR SPUN CAST CONCRETE POLE
OSP ACCESSORIES

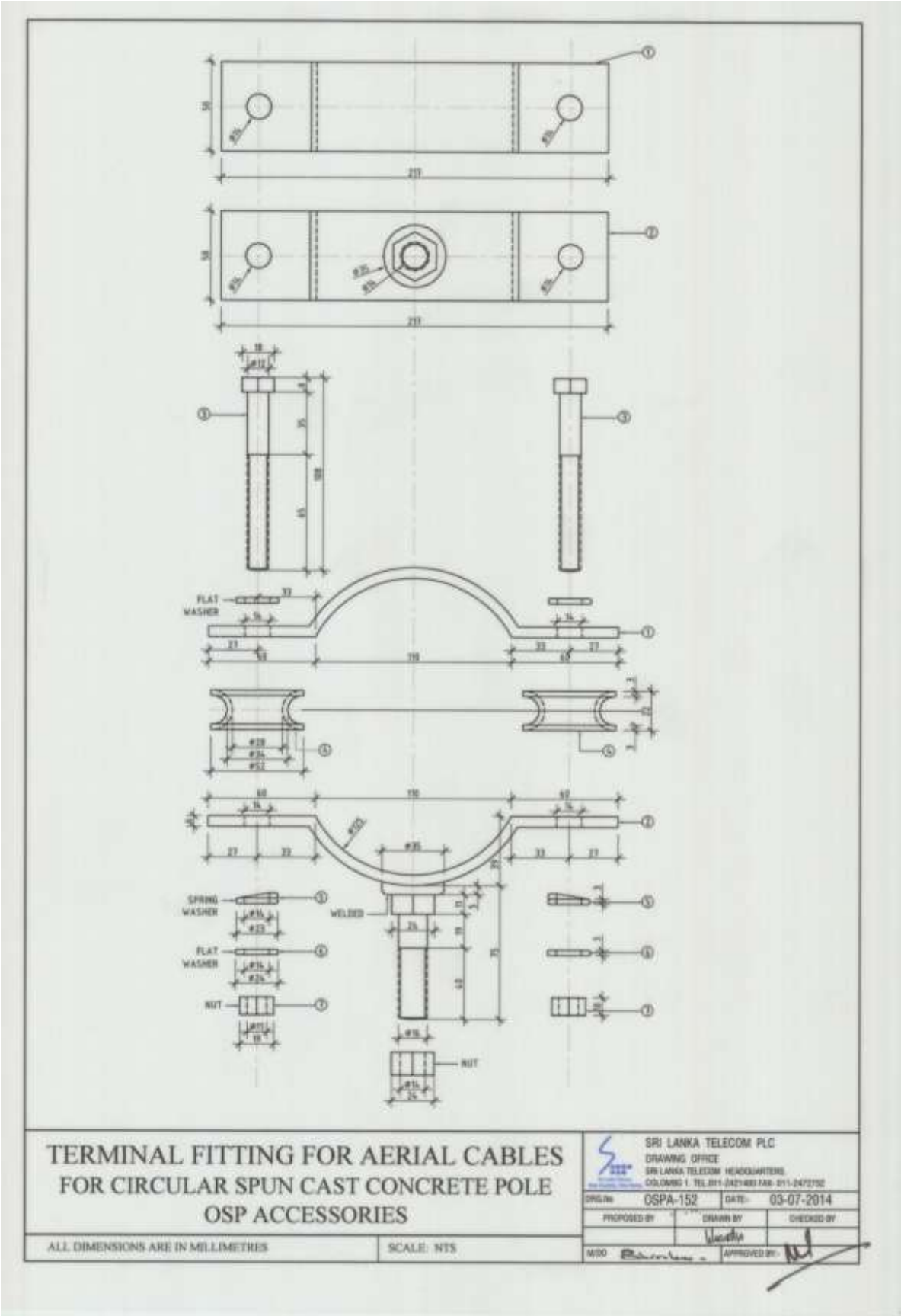
ALL DIMENSIONS ARE IN MILLIMETRES | SCALE: NTS

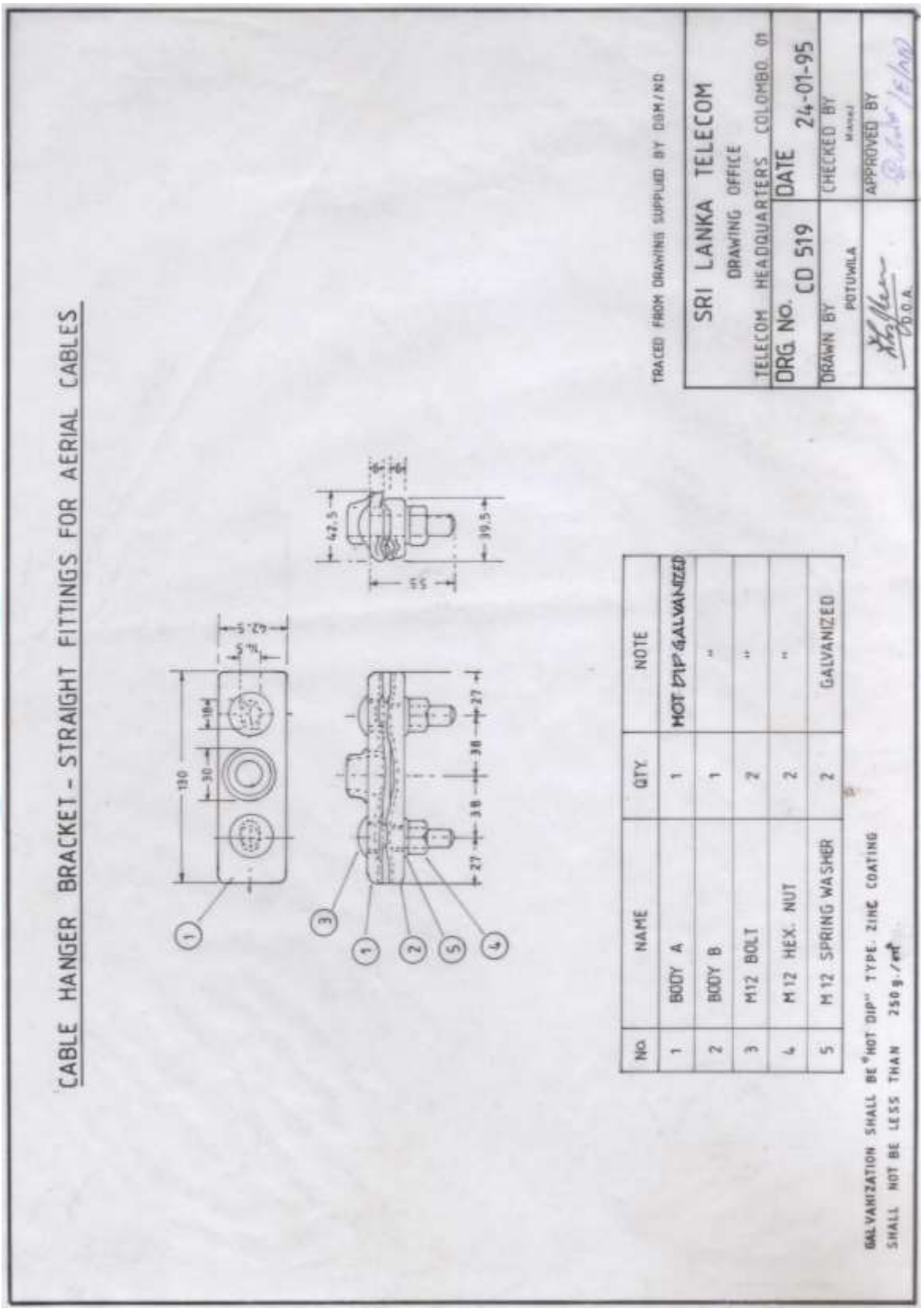
SRI LANKA TELECOM PLC
DRAWING OFFICE
DWG.No OSPA-150 | DATE: 03-07-2014

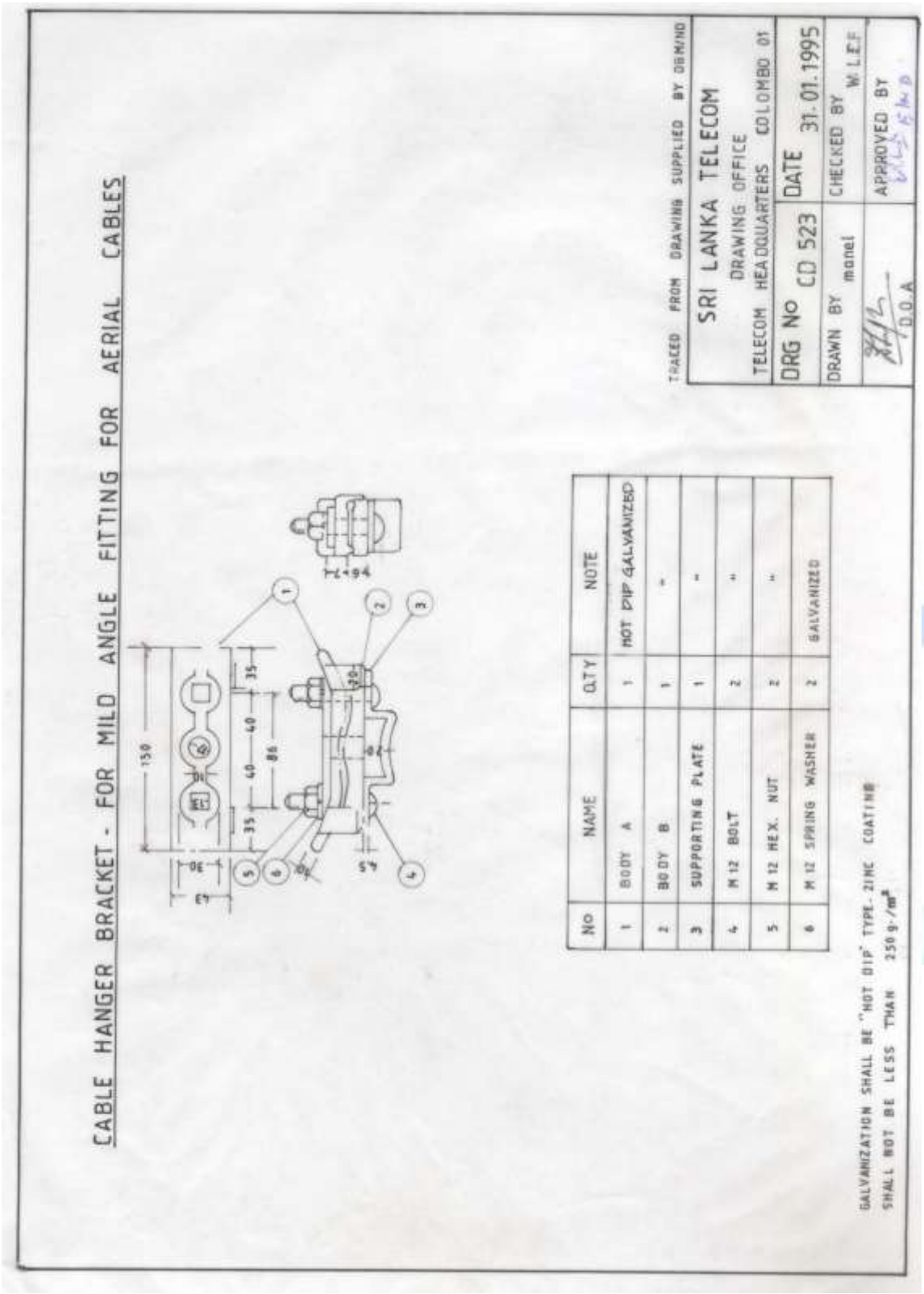


ITEM	NAME	Nos.	DIMENSIONS	REMARKS
1	BODY A	1	FI 6 x 50	HOT DIP GALVANIZED
2	BODY B	1	FI 6 x 50	HOT DIP GALVANIZED
3	THIMBLE	2	18Mmm	
4	BOLT , NUT	2	MS 12 x 105	HOT DIP GALVANIZED
5	FLAT WASHER	4	MS 12	GALVANIZED
6	SPRING WASHER	2	MS 12	GALVANIZED

FI = FLAT IRON , MS = MILD STEEL
GALVANIZATION SHALL BE * HOT DIP * TYPE ZINC COATING SHALL NOT BE LESS THAN 250g/m ^{2}


FLAT WASHER
SPRING WASHER
WELDED
FLAT WASHER
NUT
NUT
TERMINAL FITTING FOR AERIAL CABLES
FOR CIRCULAR SPUN CAST CONCRETE POLE
OSP ACCESSORIES
ALL DIMENSIONS ARE IN MILLIMETRES
SCALE: NTS
SRI LANKA TELECOM PLC
DRAWING OFFICE
OSPA-152
03-07-2014


CABLE HANGER BRACKET - STRAIGHT FITTINGS FOR AERIAL CABLES
TRACED FROM DRAWING SUPPLIED BY DSM/ND
SRI LANKA TELECOM
DRAWING OFFICE
TELECOM HEADQUARTERS COLOMBO 01
DRG No. CD 519
DATE 24-01-95
DRAWN BY POTUWILA
CHECKED BY
APPROVED BY
D.G.M.
NO. NAME QTY NOTE
1 BODY A 1 HOT DIP GALVANIZED
2 BODY B 1 "
3 M12 BOLT 2 "
4 M12 HEX. NUT 2 "
5 M12 SPRING WASHER 2 GALVANIZED
GALVANIZATION SHALL BE "HOT DIP" TYPE. ZINC COATING
SHALL NOT BE LESS THAN 250 g/m²
130
30
18
42.5
39.5
27
38
38
27


CABLE HANGER BRACKET - FOR MILD ANGLE FITTING FOR AERIAL CABLES
TRACED FROM DRAWING SUPPLIED BY DB/MND
SRI LANKA TELECOM
DRAWING OFFICE
TELECOM HEADQUARTERS COLOMBO 01
DRG No CD 523
DATE 31.01.1995
DRAWN BY manel
CHECKED BY W.L.F.F
APPROVED BY D.O.A
NO NAME QTY NOTE
1 BODY A 1 HOT DIP GALVANIZED
2 BODY B 1 "
3 SUPPORTING PLATE 1 "
4 M 12 BOLT 2 "
5 M 12 HEX. NUT 2 "
6 M 12 SPRING WASHER 2 GALVANIZED
GALVANIZATION SHALL BE "HOT DIP" TYPE- ZINC COATING
SHALL NOT BE LESS THAN 250 g/m²