

Reference Drawings with required Bill of Materials**BILL OF MATERIALS FOR 11KV CROSS-ARM STRAIGHT TYPE (0° - 4°)**

| Sl. No. | Description | Ref. No. | Drg. | Qty. Per Set |
|---------|--|----------|------|--------------|
| 1 | Stud Clamp for 11 kV line | FT - 11A | | 2 Nos. |
| 2 | 11 kV Straight Type (0 - 4°) Cross-Arm | FT - 21A | | 1 No. |
| 3 | 11 kV Cross-Arm Tie | FT - 23A | | 1 No. |
| 4 | M16 Bolt of 300 mm Length & Nuts with Plain Washer & Spring Washer | FT - 28 | | 1 Set |
| 5 | M16 Bolt of 60 mm Length & Nuts with Plain Washer & Spring Washer | FT - 28 | | 1 Set |

BILL OF MATERIALS FOR 11KV CROSS-ARM ANGLE TYPE (5° - 45°)

| Sl. No. | Description | Ref. No. | Drg. | Qty. Per Set |
|---------|--|----------|------|--------------|
| 1 | Extension Strap for 11 kV line | FT - 09A | | 6 Nos. |
| 2 | Half-Stud Clamp for 11 kV line | FT - 12A | | 4 Nos. |
| 3 | Two Way Clamp for 11 kV line | FT - 13A | | 3 Nos. |
| 4 | 11kV Angle Type (3° - 45°) Cross-Arm | FT - 21B | | 2 Nos. |
| 5 | 11kV Cross-Arm Tie | FT - 23A | | 2 Nos. |
| 6 | M16 Bolt of 300 mm Length & Nuts with Plain Washer & Spring Washer | FT - 28 | | 8 Sets |
| 7 | M16 Bolt of 60 mm Length & Nuts with Plain Washer & Spring Washer | FT - 28 | | 6 Sets |

BILL OF MATERIALS FOR 11KV CROSS-ARM TENSION TYPE (46° - 90°)

| Sl. No. | Description | Ref. No. | Drg. | Qty. Per Set |
|---------|--|----------|------|--------------|
| 1 | Extension Strap for 11 kV line | FT - 09A | | 6 Nos. |
| 2 | Half-Stud Clamp for 11 kV line | FT - 12A | | 8 Nos. |
| 3 | Multipurpose Band | FT - 17A | | 4 Nos. |
| 4 | 11kV Angle Type (46° - 90°) Cross-Arm | FT - 21C | | 4 Nos. |
| 5 | 11kV Cross-Arm Tie | FT - 23A | | 4 Nos. |
| 6 | M16 Bolt of 300 mm Length & Nuts with Plain Washer & Spring Washer | FT - 28 | | 12 Sets |
| 7 | M16 Bolt of 60 mm Length & Nuts with Plain Washer & Spring Washer | FT - 28 | | 10 Sets |

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BILL OF MATERIALS FOR GUY SET

| Sl. No. | Description | Ref. Drg. No. | Qty. Per Set |
|---------|-------------------|---------------|--------------|
| 1 | Anchor Rod | G 001 | 1 No. |
| 2 | Square Base Plate | G 001 | 1 No. |
| 3 | Guy Thimble | G 001 | 1 No. |
| 4 | Flat Washer | G 001 | 1 No. |
| 5 | M16 Nuts | G 001 | 2 Nos. |

BILL OF MATERIALS FOR 5-SPOOL WIRE RACK (STRAIGHT/ANGLE TYPE)

| Sl. No. | Description | Ref. Drg. No. | Qty. Per Set |
|---------|--|---------------|--------------|
| 1 | 5-Spool Wire Rack (Angle type) | FT-06 | 1 No. |
| 2 | Stud Clamp | FT-11A | 3 Nos. |
| 3 | 16 ϕ X 120 Cotter Pin | FT-06 | 5 Nos. |
| 4 | 3 ϕ X 30 Cotter Key | FT-06 | 5 Nos. |
| 5 | M-16 Bolt of 60 mm Length & Nuts with Plain Washer & Spring Washer | FT-28 | 1 Set |

BILL OF MATERIALS FOR 5-SPOOL WIRE RACK (CHANNEL TYPE)

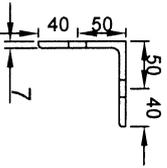
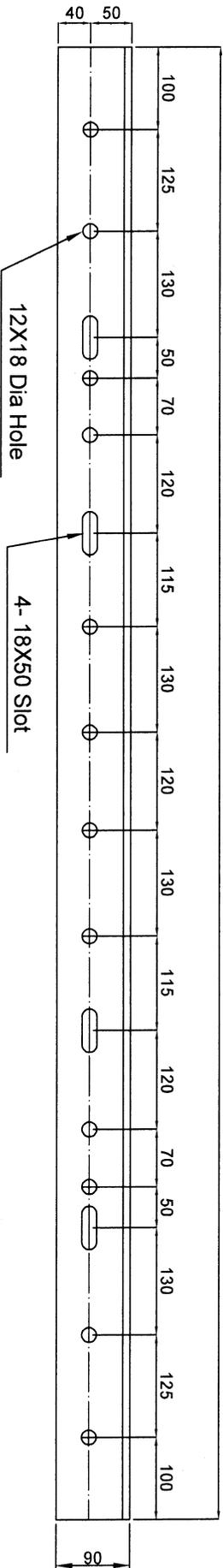
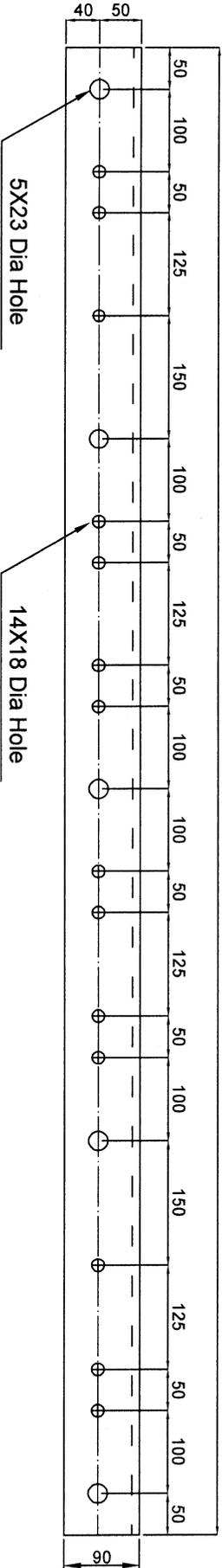
| Sl. No. | Description | Ref. Drg. No. | Qty. Per Set |
|---------|--|---------------|--------------|
| 1 | 5-Spool Wire Rack (Channel type) | FT-07 | 1 No. |
| 2 | Stud Clamp | FT-11A | 3 Nos. |
| 3 | 16 ϕ X 120 Cotter Pin | FT-07 | 5 Nos. |
| 4 | 3 ϕ X 30 Cotter Key | FT-07 | 5 Nos. |
| 5 | M-16 Bolt of 60 mm Length & Nuts with Plain Washer & Spring Washer | FT-28 | 1 Set |

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11KV STRAIGHT TYPE (0-4) CROSS-ARM

1800



Angle Size : 90X90X7 mm

NOTES :

1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
 2. MATERIALS : MILD STEEL.
 3. GALVANIZING : HOT DIP AS PER BS 729
- TOLERANCES :
- MATERIAL SIZES : ± 1%
- THICKNESS : -0% +10%

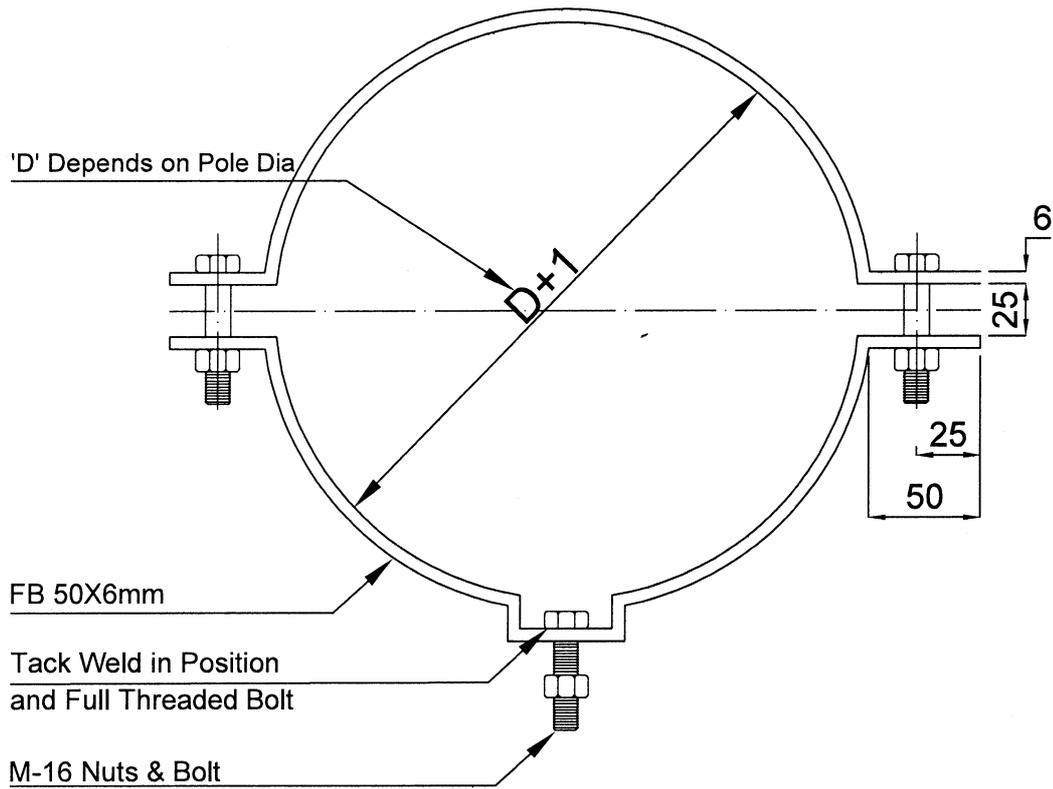
BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

DRAWING NAME : 11KV STRAIGHT TYPE (0-4) CROSS-ARM

DRAWING NO : FT-21A

Handwritten signatures and initials.

STUD CLAMP FOR 11KV LINE



NOTES :

1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS 729
4. TOLERANCES :
MATERIAL SIZES : $\pm 1\%$
THICKNESS : $-0\% +10\%$

BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

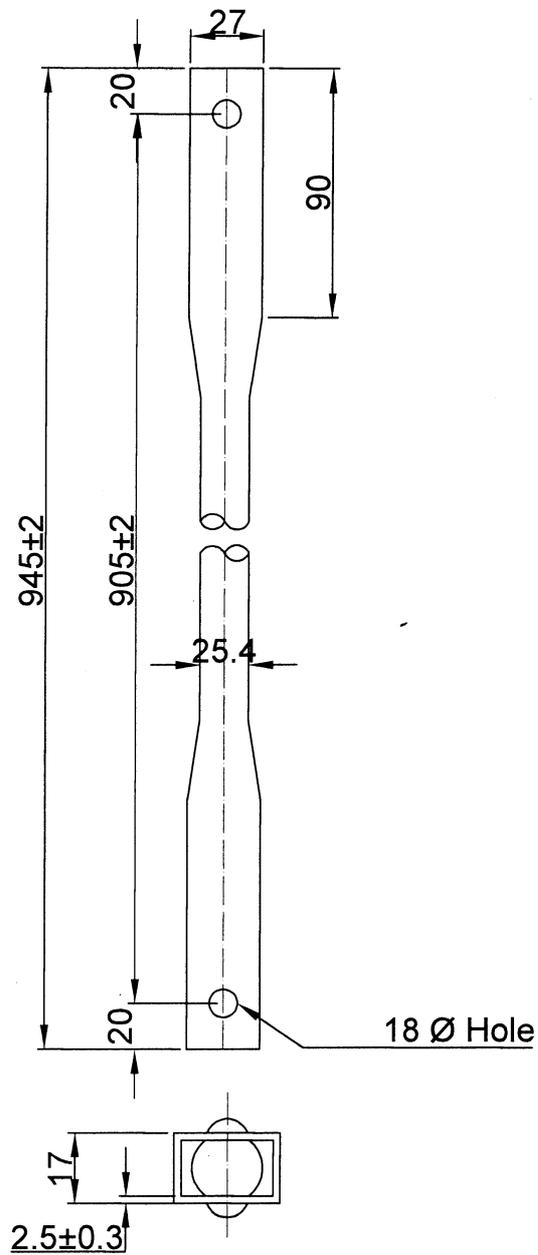
DRAWING NAME : STUD CLAMP FOR 11KV LINE

DRAWING NO : FT-11A

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NOTES :

1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS 729
4. TOLERANCES :
MATERIAL SIZES : $\pm 1\%$
THICKNESS : $-0\% +10\%$

BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

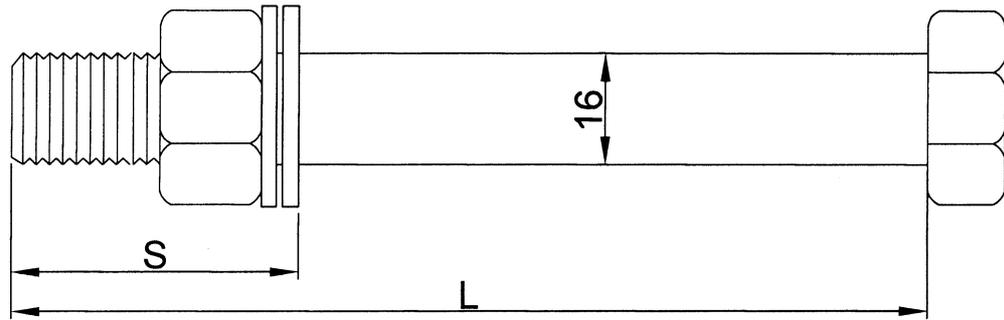
DRAWING NAME : 11KV CROSS ARM TIE

DRAWING NO : FT-23A

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| | | | | | | |
|------|----|-----|-----|-----|-----|-----|
| L mm | 60 | 100 | 250 | 280 | 300 | 350 |
| S mm | 50 | 80 | 230 | 260 | 280 | 330 |

NOTES :

1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS 729
4. TOLERANCES :
 MATERIAL SIZES : $\pm 1\%$
 THICKNESS : $-0\% +10\%$

BANGLADESH POWER DEVELOPMENT BOARD
 DIRECTORATE OF DESIGN & INSPECTION-II

DRAWING NAME : M16 BOLTS & NUTS WITH PLAIN WASHER &
 SPRING WASHER

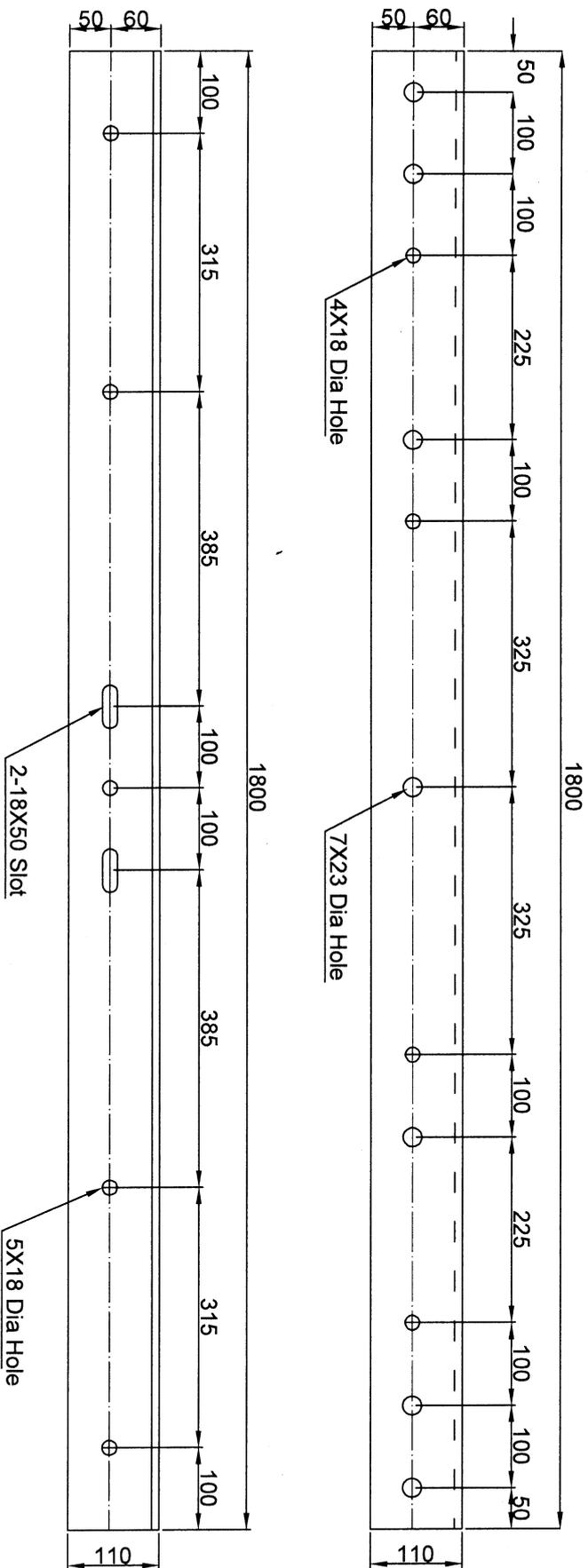
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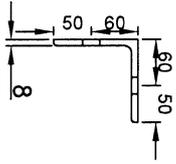
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11KV ANGLE TYPE (5°45') CROSS ARM



Angle Size : 110X110X8 mm



NOTES :

1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS 729
3. TOLERANCES :
- MATERIAL SIZES : ± 1%
- THICKNESS : -0% +10%

BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

DRAWING NAME : 11KV ANGLE TYPE (5°45') CROSS ARM

DRAWING NO : FT-21B

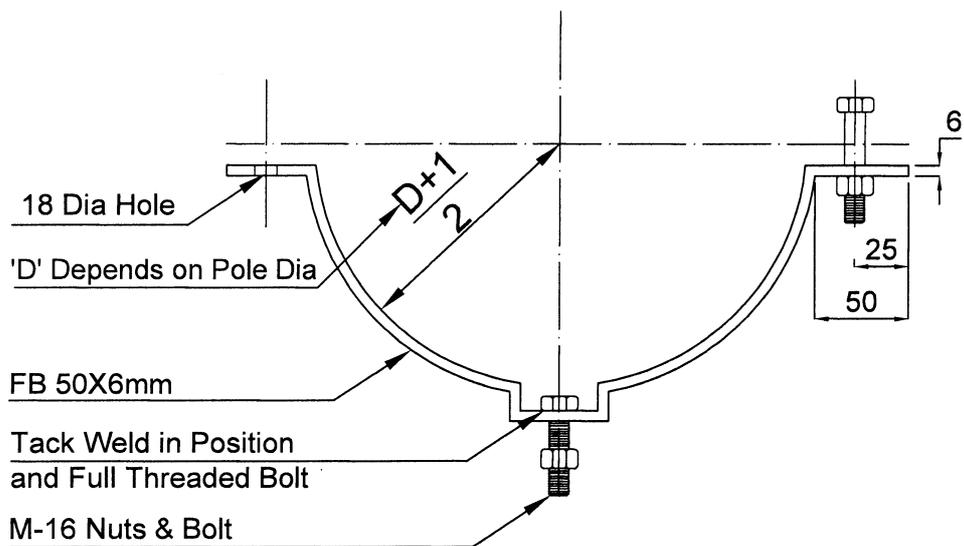
Handwritten signatures and initials:

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for

Baker.

HALF STUD CLAMP FOR 11 KV LINE



NOTES :

1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS 729
4. TOLERANCES :
 MATERIAL SIZES : $\pm 1\%$
 THICKNESS : $-0\% +10\%$

BANGLADESH POWER DEVELOPMENT BOARD
 DIRECTORATE OF DESIGN & INSPECTION-II

DRAWING NAME : HALF STUD CLAMP FOR 11KV LINE

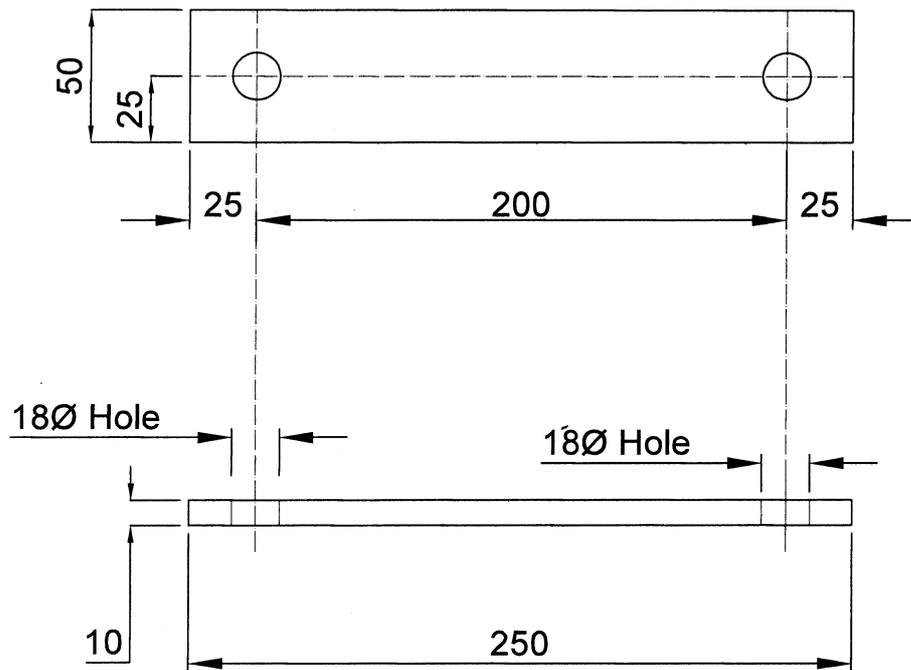
DRAWING NO : FT-12A

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EXTENSION STRAP FOR 11KV LINE



FB 50X10mm

NOTES :

1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS 729
4. TOLERANCES :
MATERIAL SIZES : $\pm 1\%$
THICKNESS : $-0\% +10\%$

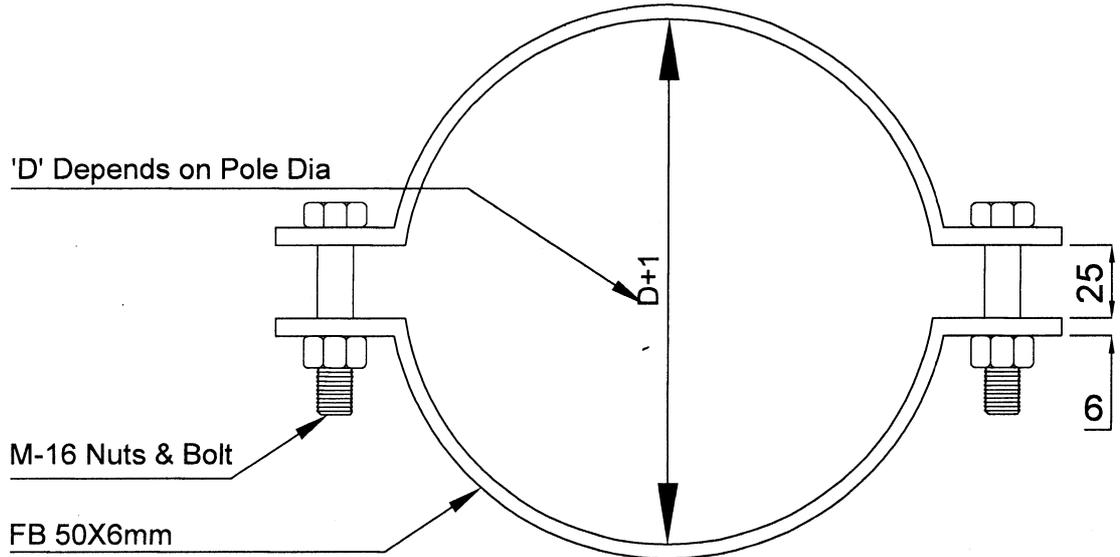
BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

DRAWING NAME : EXTENSION STRAP FOR 11KV LINE

DRAWING NO : FT-09A

(Handwritten signatures and initials)

TWO WAY CLAMP FOR 11KV LINE



NOTES :

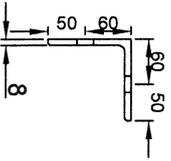
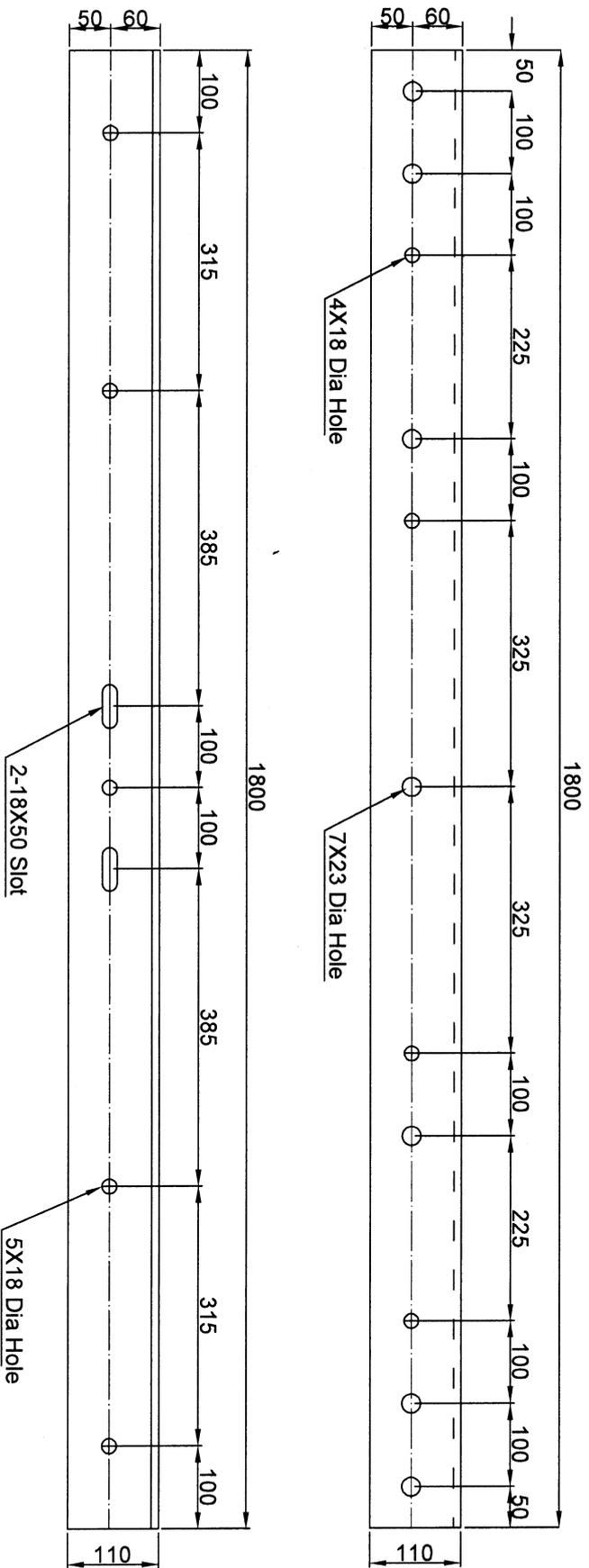
1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS 729
4. TOLERANCES :
MATERIAL SIZES : $\pm 1\%$
THICKNESS : $-0\% +10\%$

BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

DRAWING NAME : TWO WAY CLAMP FOR 11KV LINE

DRAWING NO : FT-13A

11KV TENSION TYPE (46°-90°) CROSS ARM



Angle Size : 110X110X8 mm

NOTES :

1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS 729
3. TOLERANCES : ± 1%
- MATERIAL SIZES : ± 1%
- THICKNESS : -0% +10%

BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

DRAWING NAME : 11KV TENSION TYPE (46°-90°) CROSS ARM

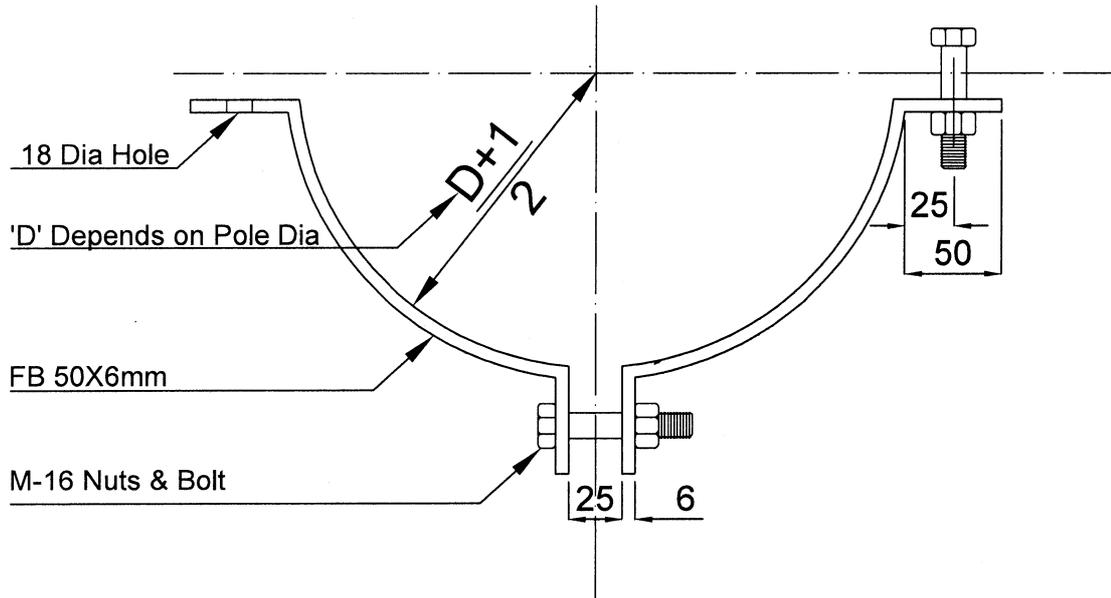
DRAWING NO : FT-21C

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MULTIPURPOSE BAND FOR 11KV LINE



NOTES :

1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS 729
4. TOLERANCES :
MATERIAL SIZES : $\pm 1\%$
THICKNESS : $-0\% +10\%$

BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

DRAWING NAME : MULTI PURPOSE BAND FOR 11KV LINE

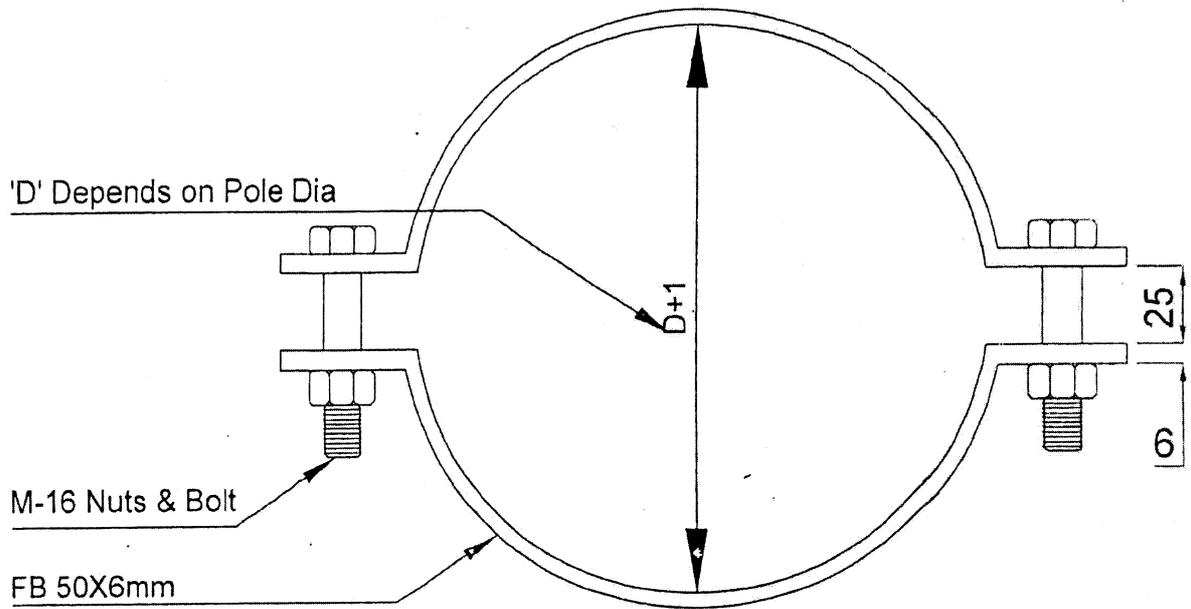
DRAWING NO : FT-17A

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TWO WAY POLE BAND



NOTES :

1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER ASTM A90/
BS EN ISO 1461:1999
4. TOLERANCES :
MATERIAL SIZES : ± 1 mm
THICKNESS : -0% +10%

BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

DRAWING NAME : TWO WAYPOLE BAND

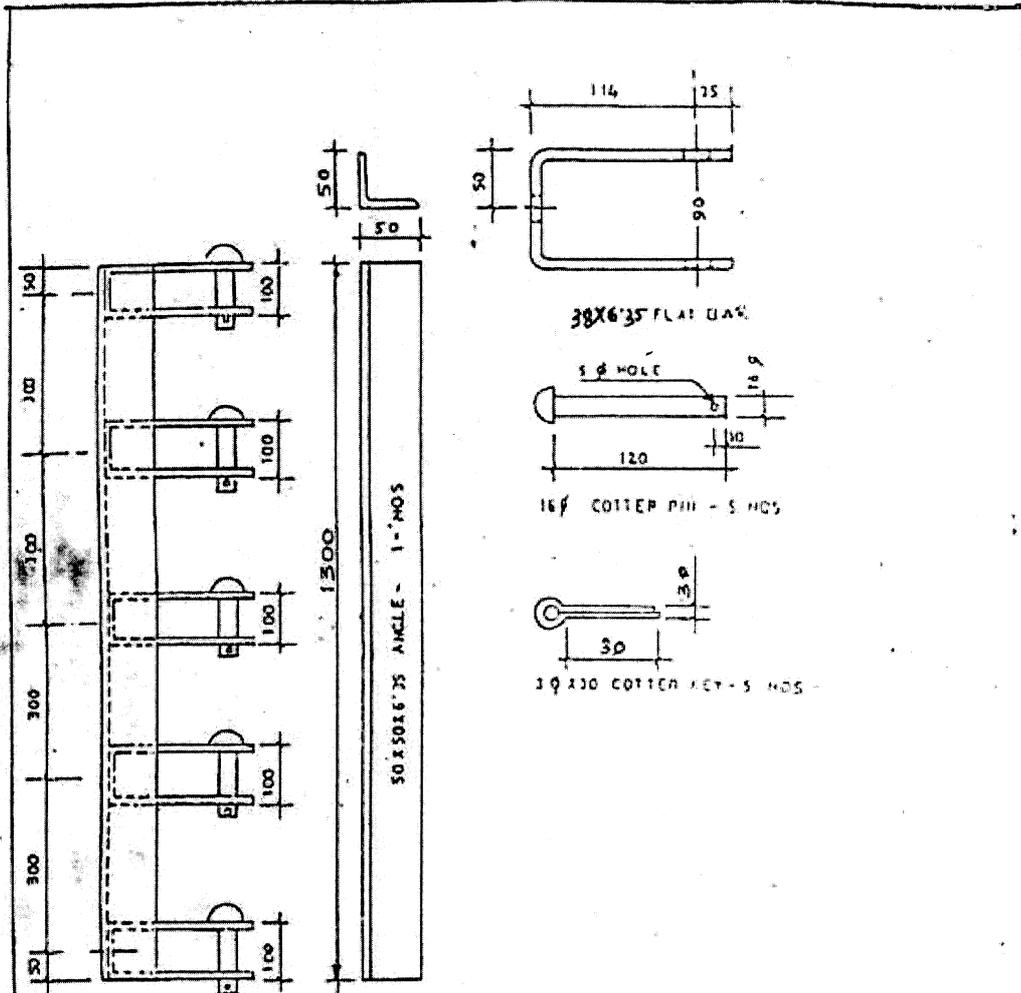
DRAWING NO : FT-14A

1/10

CD

Fan

Bahar



5-SPOOL WIRE RACK (ANGLE)

NOTES:

- 1. DIMENSIONS : IN MM AFTER HOT DIP GALVANIZING.
- 2. MATERIALS : MILD STEEL.
- 3. GALVANIZING : HOT DIP AS PER BS EN ISO 1461:1999
- 4. TOLERANCES : ± 1.0mm
- MATERIAL SIZES : ± 0.07mm
- THICKNESS : -0%, +10%

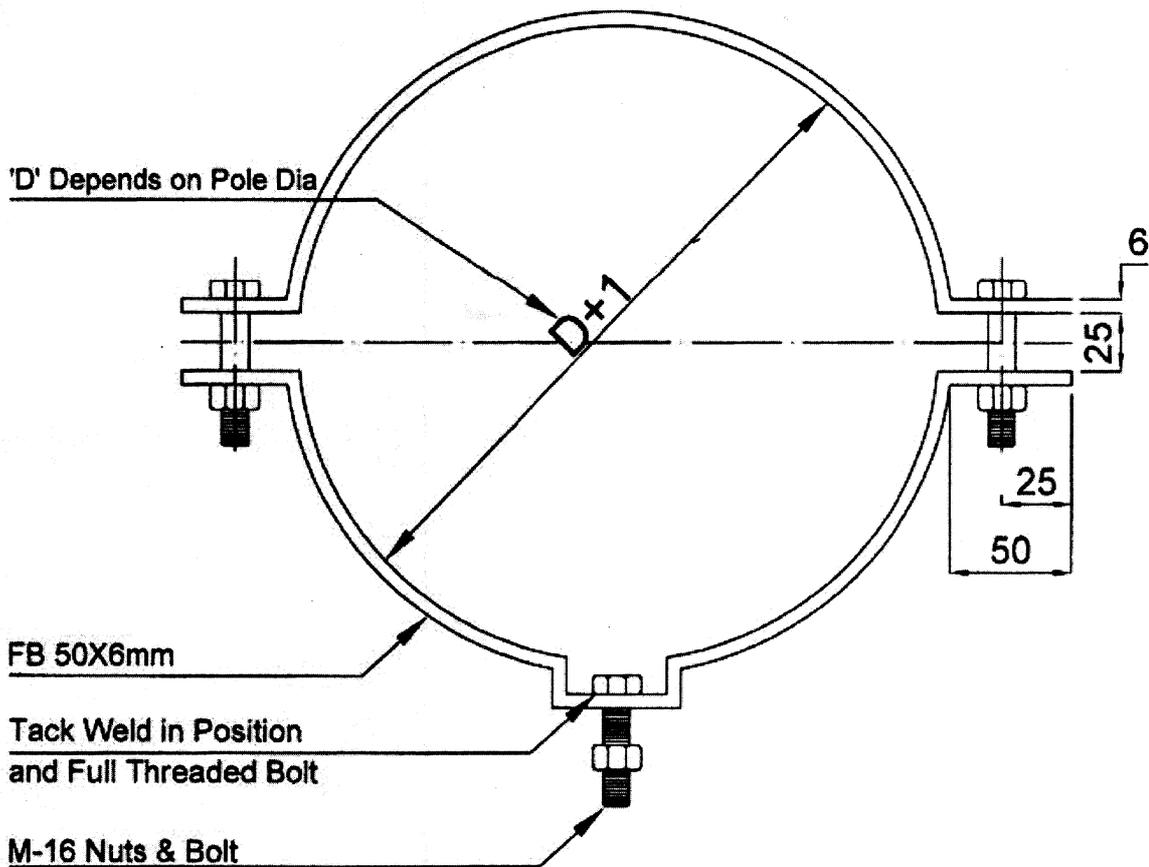
| | |
|---|---|
| BANGLADESH POWER DEVELOPMENT BOARD | |
| DIRECTORATE OF DESIGN & INSPECTION -II | |
| DRAWING TITLE : | 5-SPOOL WIRE RACK (ANGLE ANGLE STRAIGHT) |
| DRAWING NO. : | FT - 06 |

Bank

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STUD CLAMP



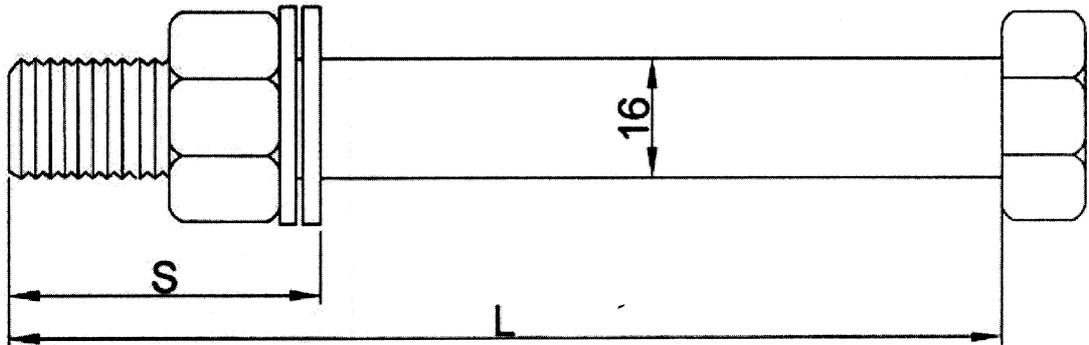
NOTES :

1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS EN ISO 1461:1999
4. TOLERANCES :
MATERIAL SIZES : $\pm 1\text{mm}$
THICKNESS : $-0\% +10\%$

BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

DRAWING NAME : STUD CLAMP

DRAWING NO : FT-11A



| | | | | | | |
|------|----|-----|-----|-----|-----|-----|
| L mm | 60 | 100 | 250 | 280 | 300 | 350 |
| S mm | 50 | 80 | 230 | 260 | 280 | 330 |

NOTES :

1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS EN ISO 1461:1999
4. TOLERANCES :
 MATERIAL SIZES : $\pm 1\text{mm}$
 THICKNESS : $-0\% +10\%$

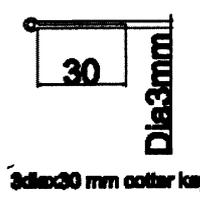
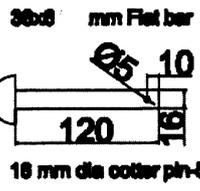
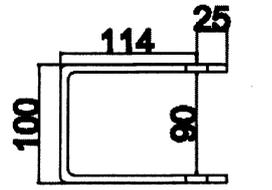
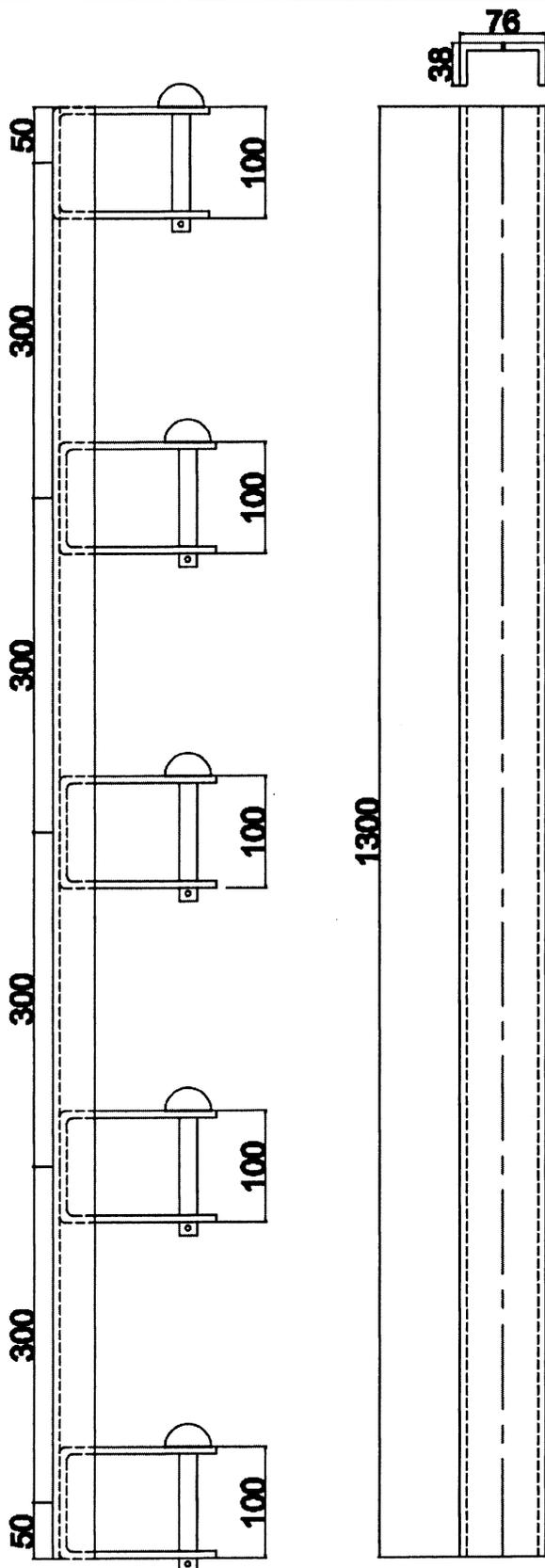
BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

DRAWING NAME : M16 BOLTS & NUTS WITH PLAIN WASHER &
 SPRING WASHER

DRAWING NO : FT-28

W *Far*

Revised



38x76x38x6 mm channel (welded)

**5- Spool Wire Rack
(Channel)**

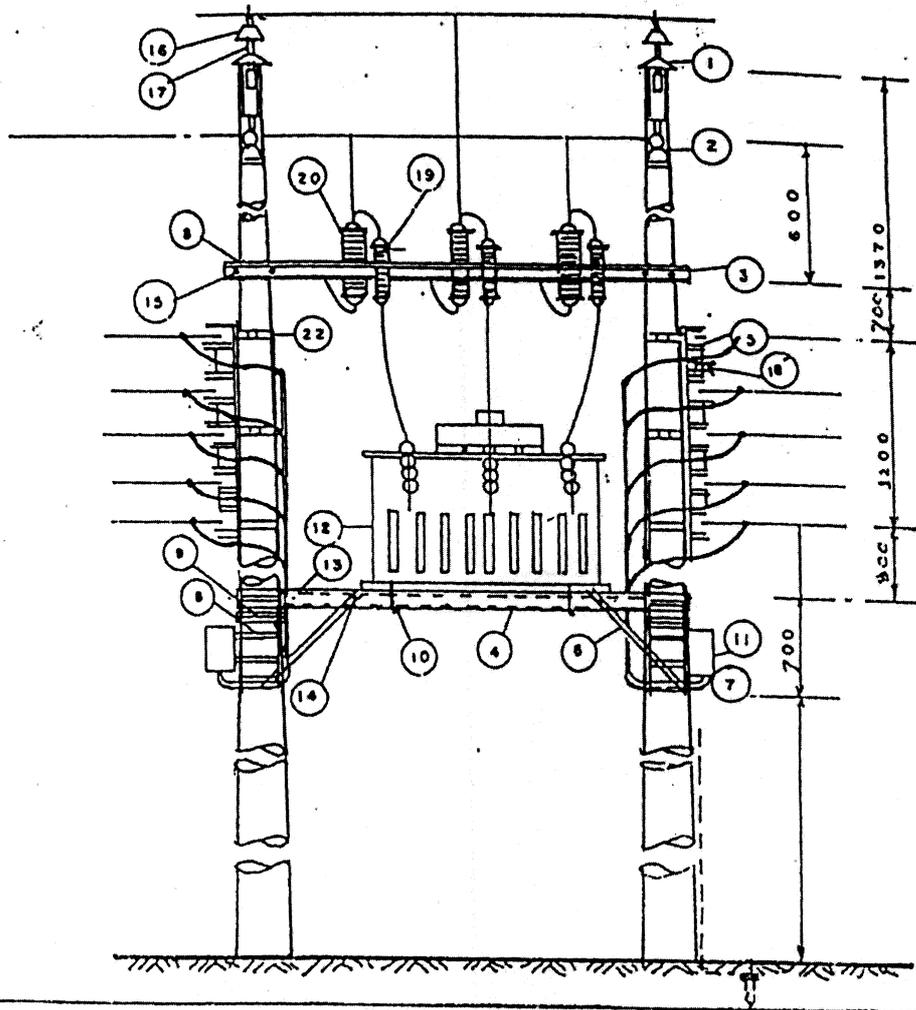
- NOTES:**
 1.Dimension: In mm after hot dip galvanizing.
 2.Materials: Mild steel.
 3.Galvanizing: Hot Dip as per BS EN ISO 1461 : 1998.
 4.Tolerances:
 Material Sizes: +1mm.
 Thickness: -0%, +10%.

| | |
|--|-----------------------|
| TITLE: 5-SPOOL WIRE RACK(CHANNEL) | |
| DRG. NO. : FT - 07 | DIMENSION : MM |
| DESIGNED BY : BANGLADESH POWER DEVELOPMENT BOARD. | |

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BILL OF MATERIALS

| SL. NO. | ITEM | MATL | QTY | DETAIL DRG. |
|---------|------------------------------|------|-------|-------------|
| 1 | RIDGE IRON | MS | | |
| 2 | SIDE MOUNT BRACKET | MS | | |
| 3 | FUSE MOUNT CHANNEL | MS | 1 NO | S 001 |
| 4 | TRANSFORMER BASE ANGLE | MS | 2 NOS | S 001 |
| 5 | B SPOOL DEAD END RACK | MS | | |
| 6 | TRANSFORMER BASE BRACING | MS | 4 NOS | S 001 |
| 7 | CLAMP FOR BRACING | MS | 2 NOS | S 001 |
| 8 | CLAMP CHANNEL | MS | 2 NOS | S 001 |
| 9 | POLE BAND | MS | 4 NOS | S 001 |
| 10 | J. BOLT | MS | 4 NOS | S 001 |
| 11 | MCCB WITH BOX | | | |
| 12 | 3 φ DISTRIBUTION X-FORMER | | | |
| 13 | NUT & BOLTS, M16X50, Type-A | | 4 NOS | MCCB |
| 14 | NUT & BOLTS, M16X63, Type-A | | 4 NOS | M 001 |
| 15 | NUT & BOLTS, M16X300, Type-A | | 4 NOS | M 001 |

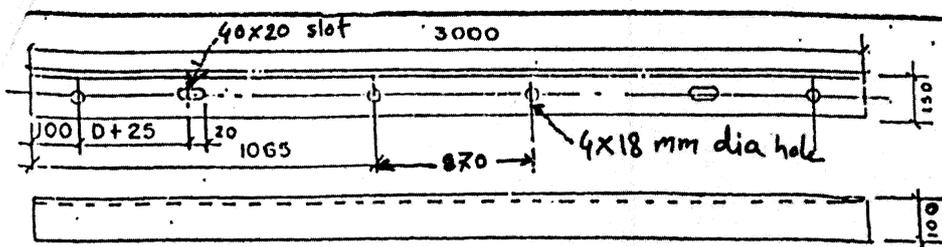
**BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION -II**

DRAWING TITLE : GENERAL ARRANGEMENT OF 11/0.415KV POLE MOUNTED DISTRIBUTION SUB-STATION ON 12 METER POLE

W

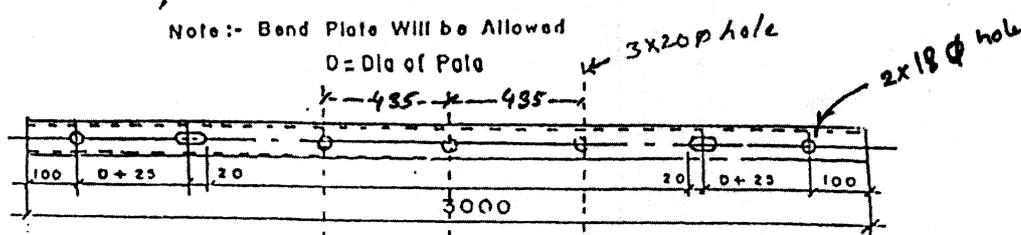
FF

Baker



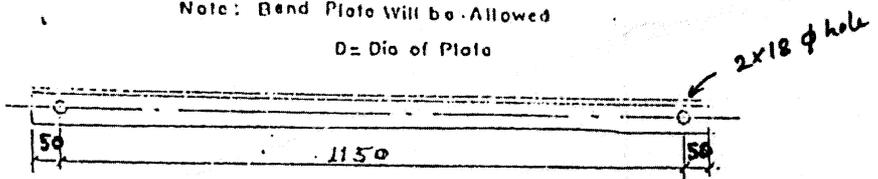
1) TRANSFORMER BASE ANGLE 150X100X8mm

Note:- Bend Plate Will be Allowed
D = Dia of Pole

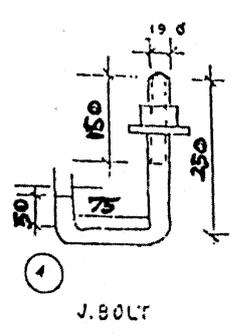


2) FUSE MOUNT CHANNEL 100X50X6mm

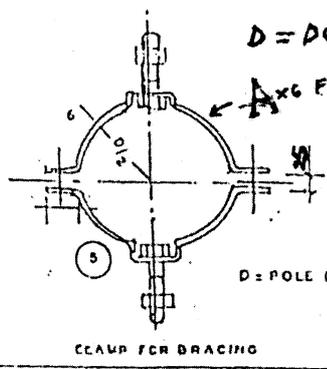
Note: Bend Plate Will be Allowed
D = Dia of Pole



3) TRANSFORMER BASE BRACING ANGLE 90X90X6mm

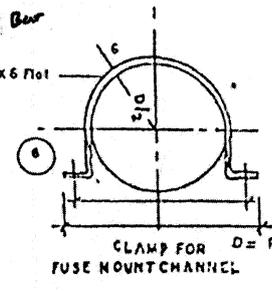


4) J. BOLT

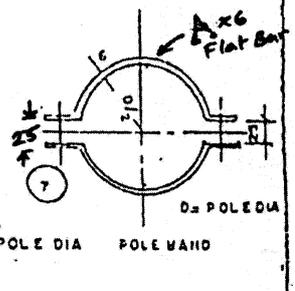


CLAMP FOR BRACING

D = Depends on Pole Dia A = 50 mm



CLAMP FOR D = POLE DIA FUSE MOUNT CHANNEL



POLE BAND

| BILL OF MATERIAL | | | | | |
|------------------|--------------------------------|-------|------|----------|--|
| SL.NO. | ITEM | MATL. | QTY. | DRG. NO. | |
| 1. | TRANSFORMER BASE ANGLE | MS. | 2 | 3001 | |
| 2. | FUSE MOUNT CHANNEL | MS. | 1 | 3001 | |
| 3. | TRANSFORMER BASE BRACING ANGLE | MS. | 4 | " | |
| 4. | J. BOLT. | MS. | 4 | " | |
| 5. | CLAMP FOR BRACING | MS. | 2 | " | |
| 6. | CLAMP FOR FUSE MOUNT CHANNEL | MS. | 2 | " | |
| 7. | POLE BAND | MS. | 4 | " | |
| 8. | NUTS & BOLTS, M16x30, TYPE-A | | 4 | M001 | |
| 9. | NUTS & BOLT, M16x33, TYPE-A | | 4 | M001 | |
| 10. | NUTS & BOLTS, M16x30, TYPE-A | | 4 | M001 | |

BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION -II

DRAWING TITLE : 11/0.415KV POLE MOUNTED DISTRIBUTION SUB-STATION ACCESSORIES SET

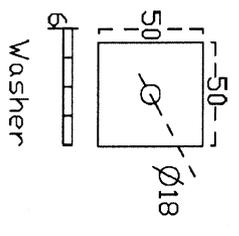
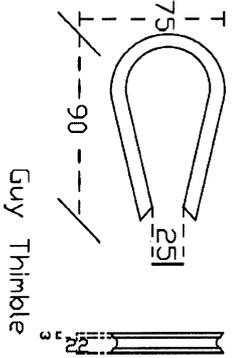
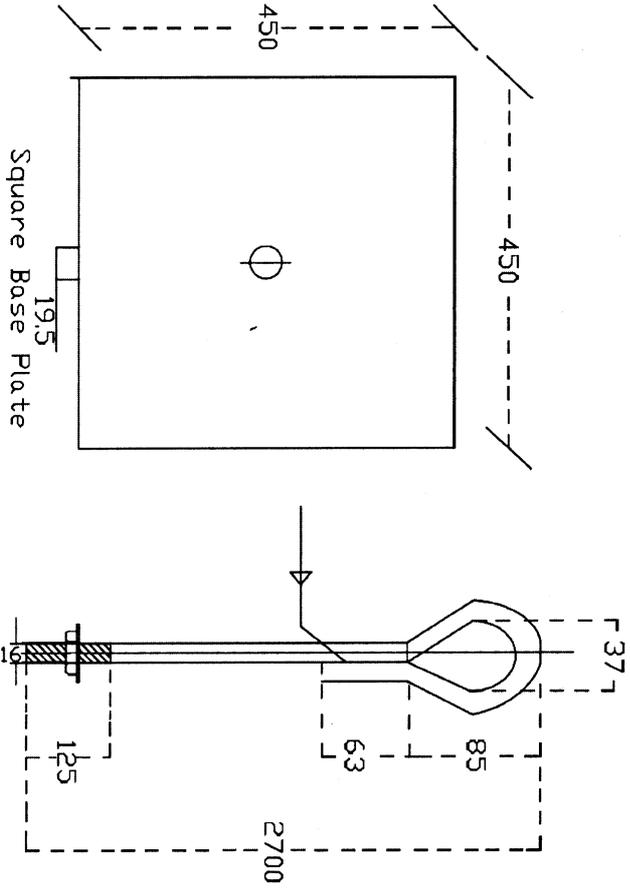
DRAWING No. : S-001

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Drawing of Guy Assembly

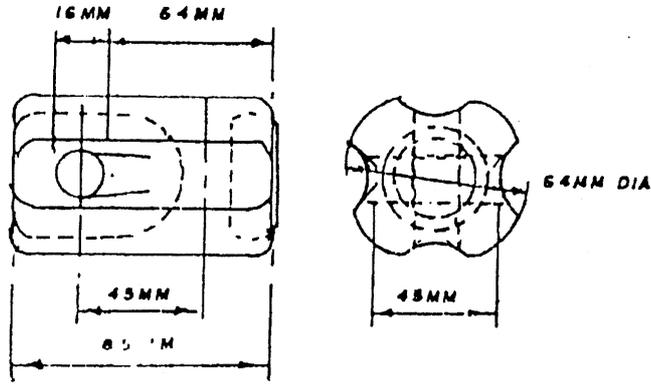


- Notes
1. Diemnsions : In MM After Hot Dip Galzavizing
 2. Materials : Mild Steel
 3. Galvanizing : Hot Deep as per BS EN ISO 1461:1999
 4. Tolerance :

Material Sizes: $\pm 1\text{mm}$
 Thickness : -0%, +10%

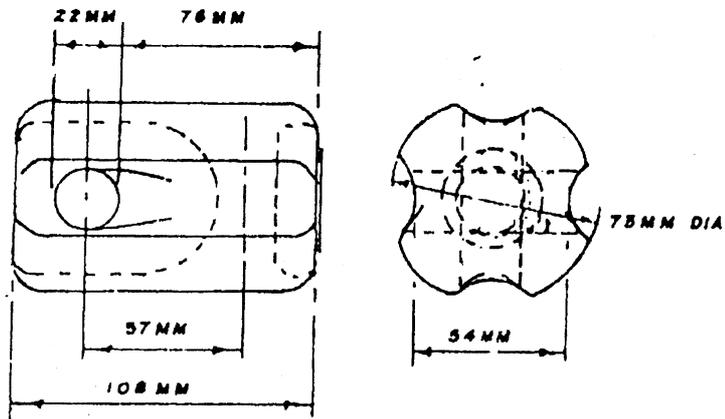


Bangladesh Power Development Board, BPDB
Directorate of Design & Inspection II
Drawing Name: Guy Assembly
Drawing No.: G 001



400 VOLT GUY INSULATOR

STOCK NO-1030Z010.0



11KV. GUY INSULATOR

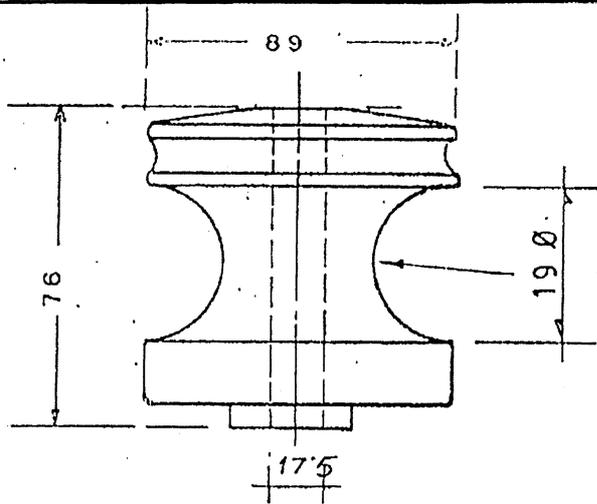
STOCK NO-102070.100

| | | | |
|---|------------------------|------------|------|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN & INSPECTION-2 GUY INSULATOR | Designed: M.A. Razaque | SCALE : | |
| | Drawn: Feroz Mia. | Drawing No | Rev. |
| | Checked: M. Rahman. | 1013 | |
| | Approved: A.T.K. | | |
| | Date: 3.1.88. | | |

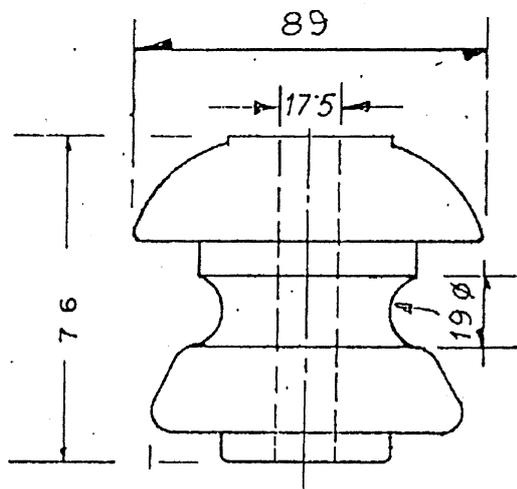
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SPOOL INSULATOR



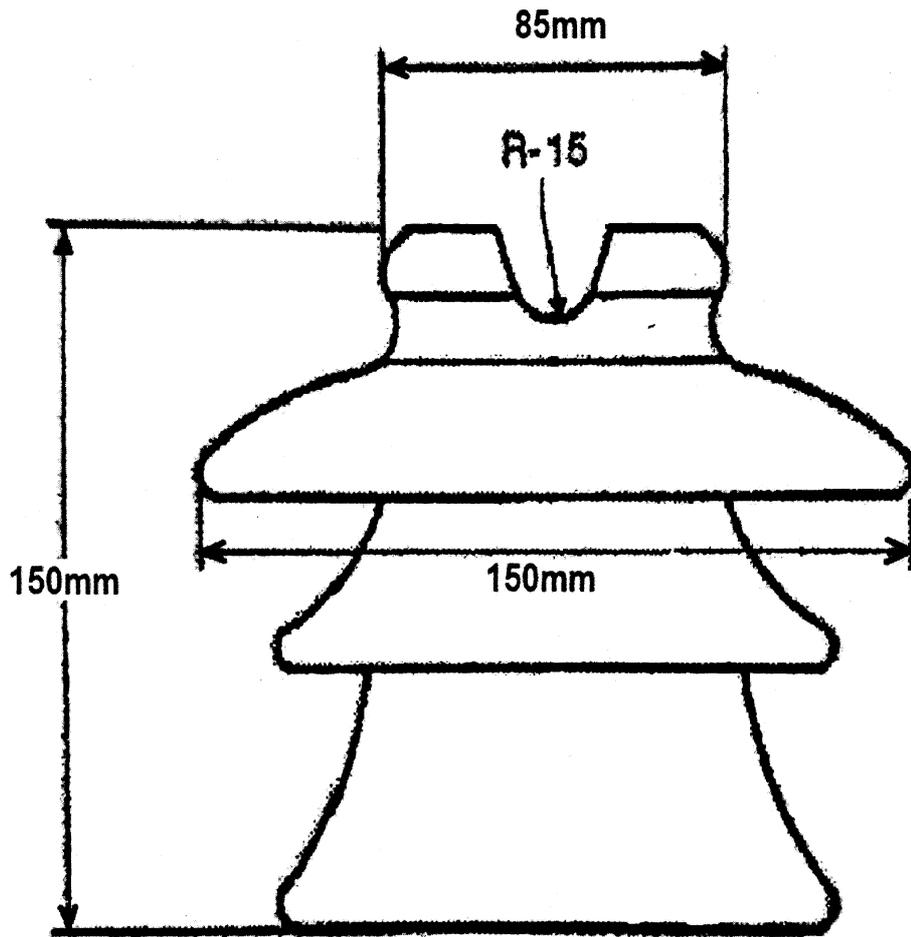
SHACKLE INSULATOR

| | | | |
|---|---------------------|---------------------|-----|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN & INSPECTION-II | Designed: M. Rahman | Scale: | |
| | Drawn: S. S. Rahman | Drawing No. | Re. |
| 400 V SHACKLE INSULATOR | Checked: M. Rahman | 1005 | |
| | Approved: A.T.K | | |
| | Date: 20.2.86 | Stock No. 103040100 | |

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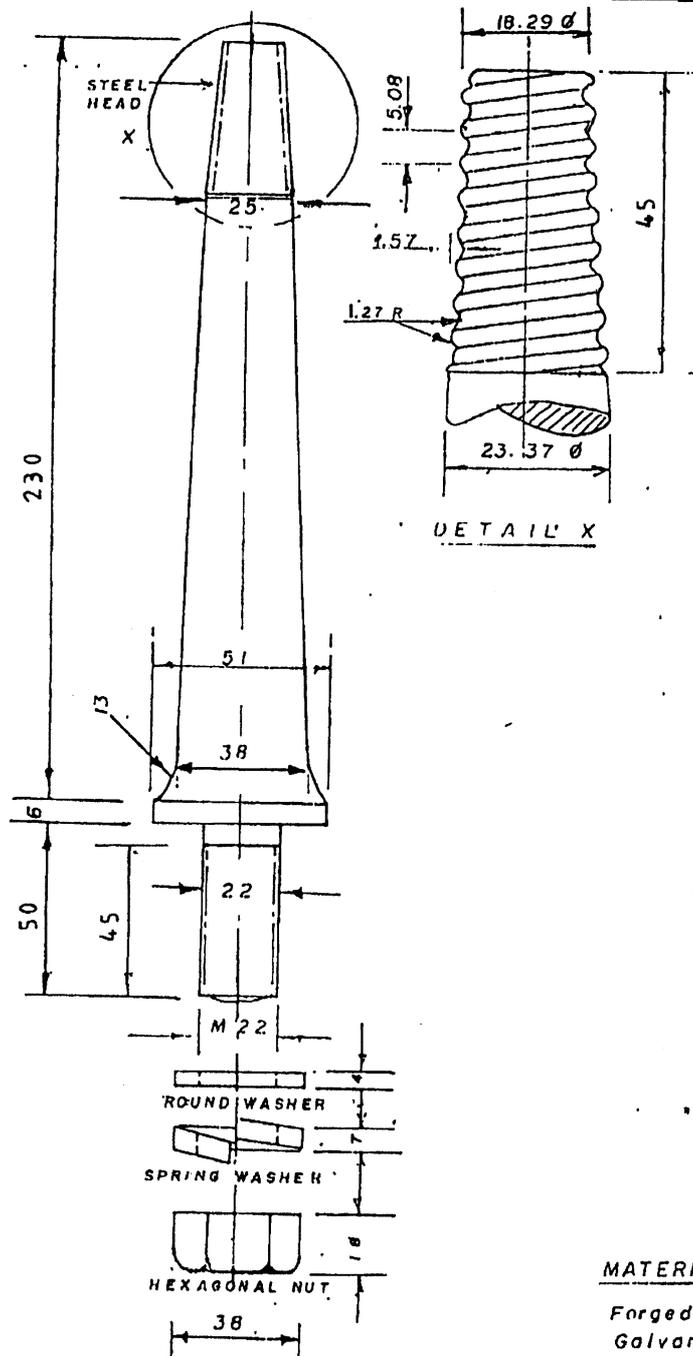
BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

11 KV PIN INSULATOR

| | | |
|------------|---------------|--------|
| DESIGNED : | SCALE : | |
| CAD : | DRAWING NO. : | REV. : |
| CHECKED : | | |
| APPROVED : | | |
| DATE : | | |

For

Baker



MATERIAL

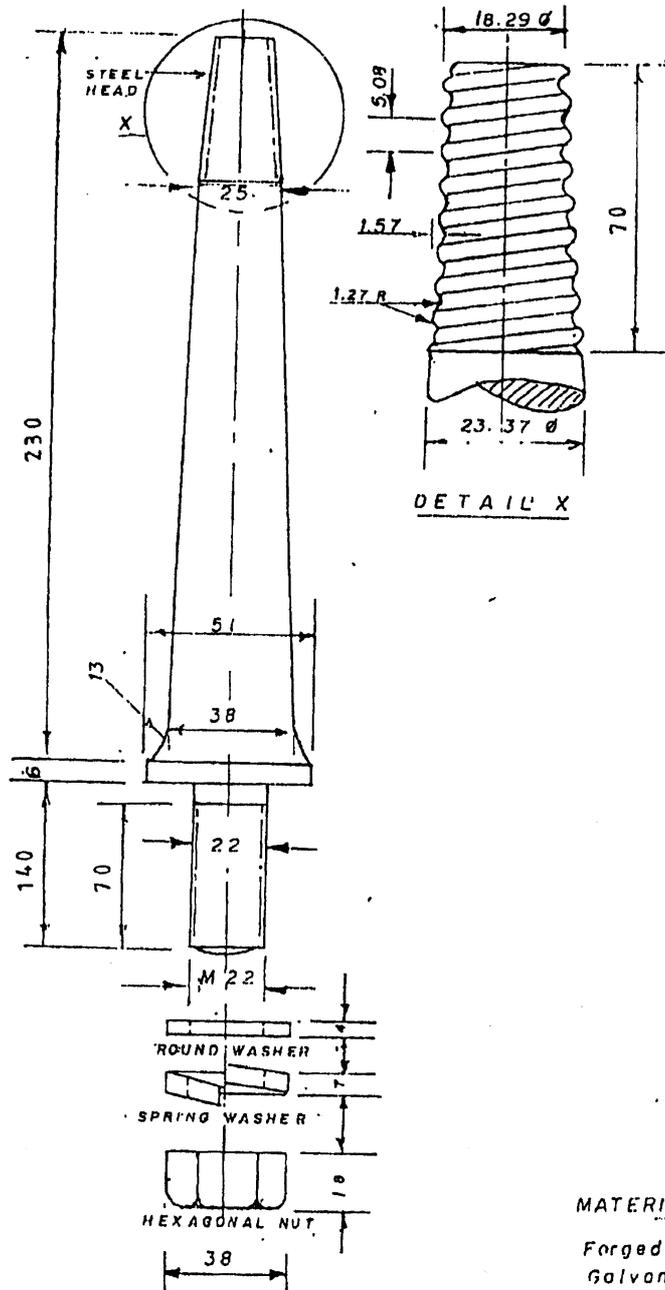
Forged Steel Hot-dip
Galvanized (BS-729)

| | | | |
|---|---------------------|---------------------|-----|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN & INSPECTION-II | Designed: S. K. D | Scale: | |
| | Drawn: S. S. Rahman | DRAWING NO. | REV |
| 11 KV SHORT SHANK PIN. | Checked: M. R. H | 1 0 0 4 | |
| | Approved: M. H. J | STOCK NO. I05040101 | |
| | Date: 7.8.83 | | |

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For

Baker



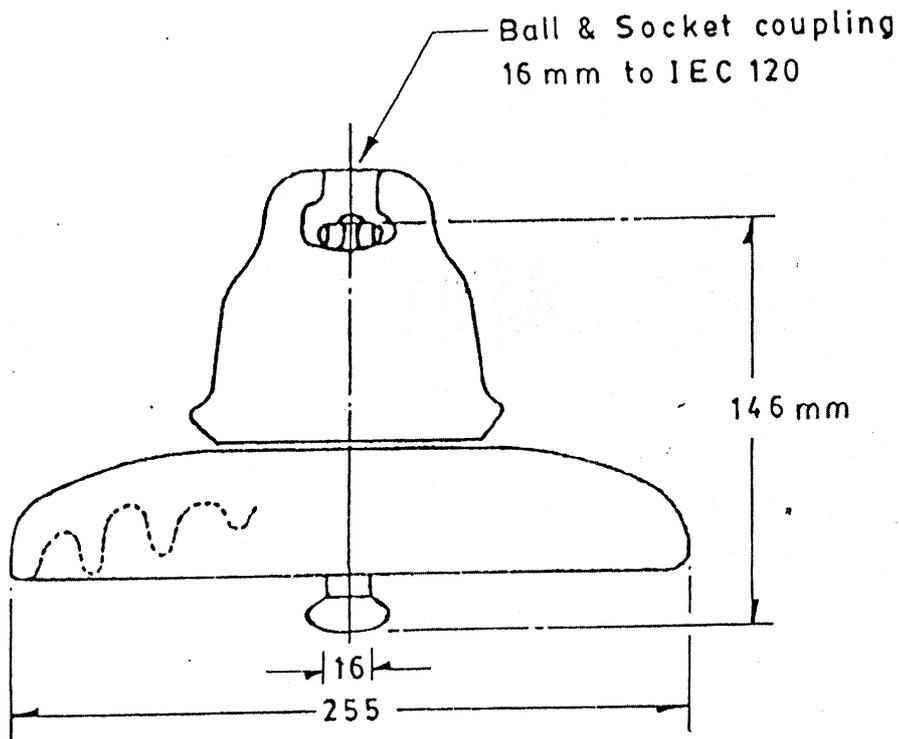
MATERIAL
 Forged Steel Hot-dip
 Galvanized (B9-729)

| | | | |
|---|----------------------|----------------------|-----|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN & INSPECTION-II | Designed : S. K. D | Scale : | |
| | Drawn : S. S. Rahman | DRAWING NO | REF |
| 11 KV LONG SHANK PIN. | Checked : M. R. H | 1 0 0 4 | |
| | Approved : M. H. J | STOCK NO. [05040111] | |
| | Date : 7.6.83 | | |

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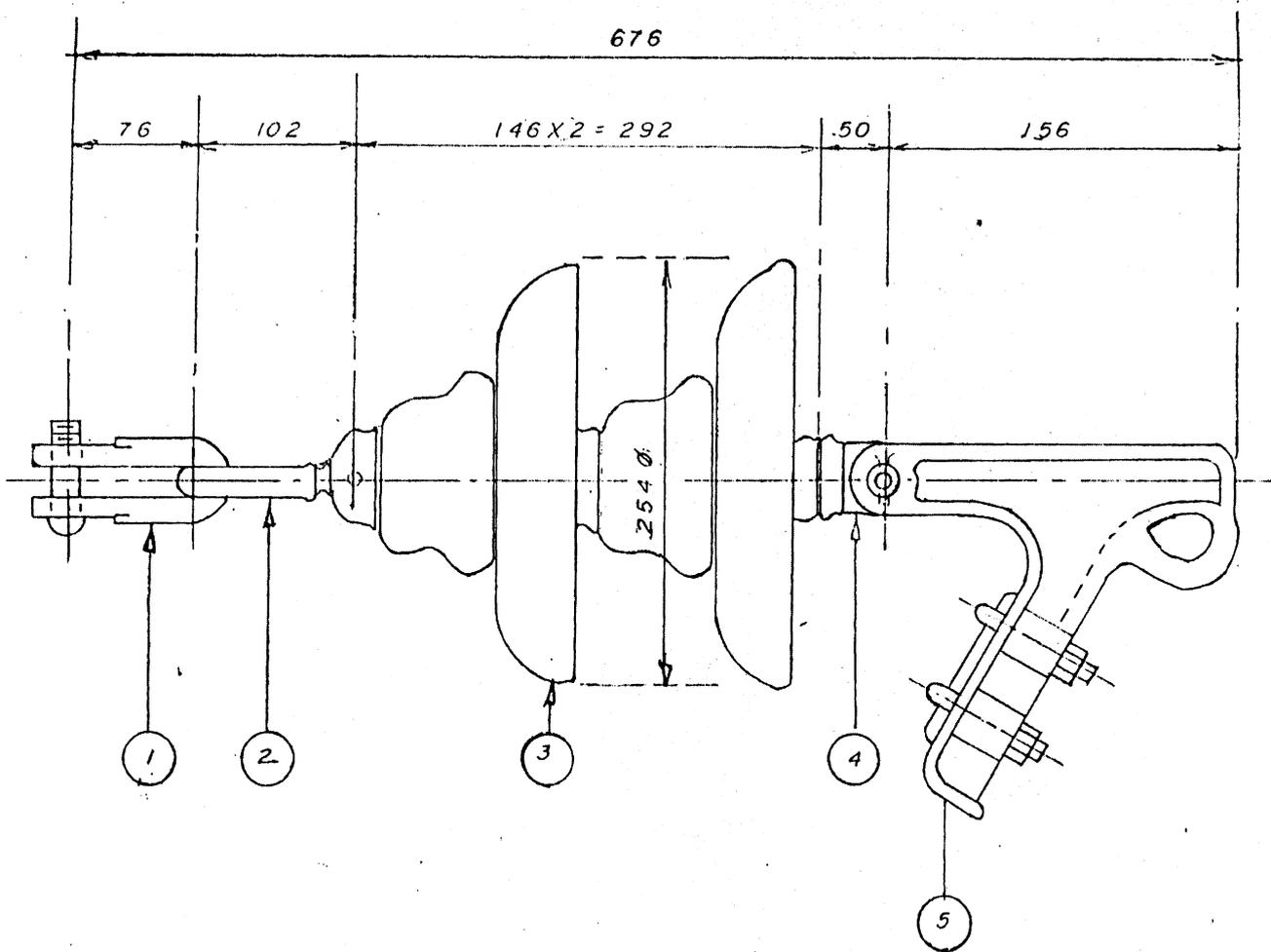


| | | | |
|---|----------------------|---------------------|------|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN & INSPECTION-II | Designed : M. Rahman | Scale : | |
| | Drawn : S. S. Rahman | Drawing No. | Rev. |
| 11KV DISC INSULATOR | Checked : M. Rahman | 1 009 | |
| | Approved : A. T. A. | | |
| | Date : 20.1.86 | Stock No. 102030101 | |

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1. ANCHOR SHACKLE
2. BALL EYE
3. DISC INSULATOR
4. SOCKET EYE
5. STRAIN CLAMP

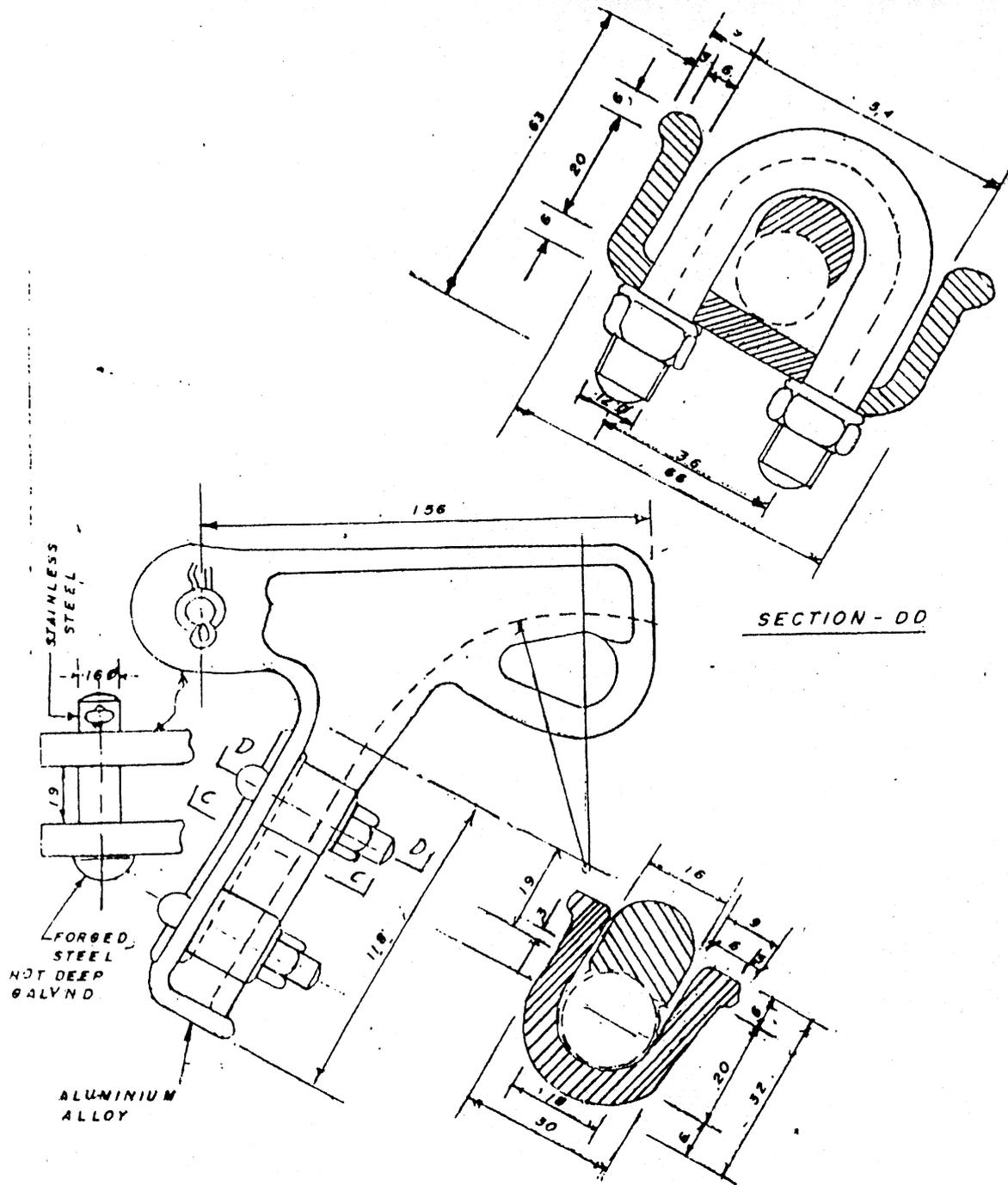
| | | | |
|---|---------------------|---------------------|------|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN & INSPECTION-II | Designed: M. J. H | Scale: | |
| | Drawn: S. S. Rahman | Drawing No | Rev. |
| 11KV STRAIN CLAMP SET | Checked: M. J. H | 1011 | |
| | Approved: A. T. h | | |
| | Date: SEPT. 85 | Stock No. 102060101 | |

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BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION - II

Designed: M. J. H

Scale

Drawn: S. S. Rahman

Drawing No.

Rev

11KV STRAIN CLAMP

Checked: M. J. H

F 008

Approved: A. T. K

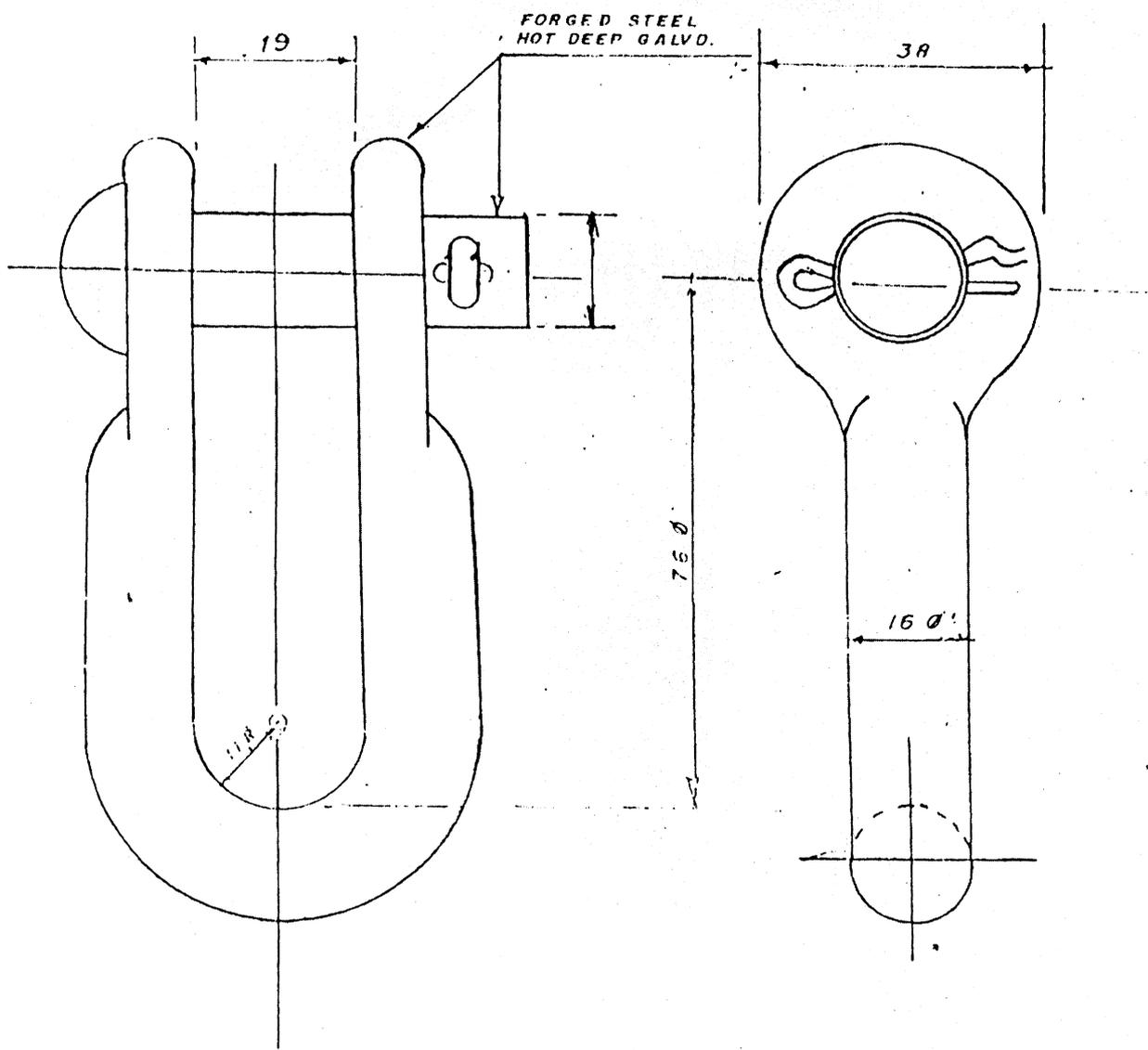
Date: Sept. 85

Stock No. F 04020514

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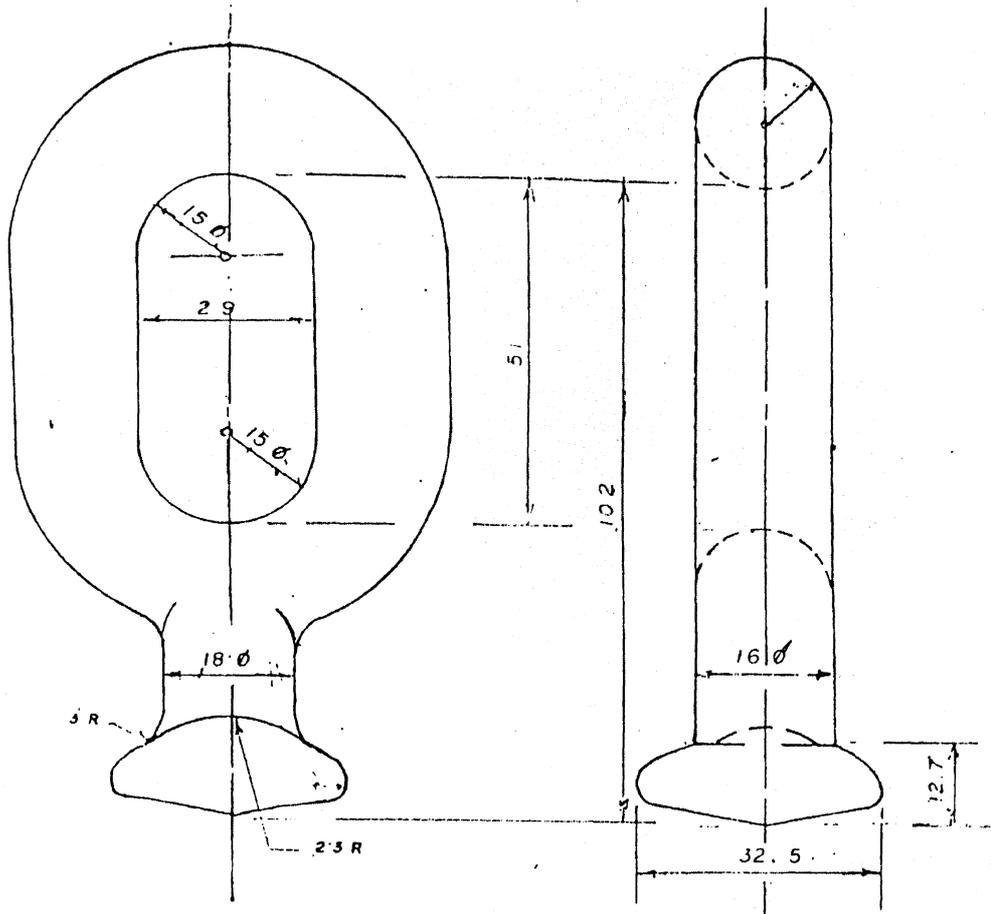


| | | | |
|---|--------------------|---------------------|-----|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN & INSPECTION-II | Designed: M.J.H | Scale: | |
| | Drawn: S.S. Rahman | DRAWING NO. | REV |
| ANCHOR SHACKLE | Checked: M.J.H | 1001 | |
| | Approved: A.T.K | | |
| | Date: Sept. 85 | STOCK NO. I05010100 | |

W

For

Signature



BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

Designed: M.J.H.
 Drawn: S.S. Rahman
 Checked: M.J.H.
 Approved: A.T.A.
 Date: Sept. 85

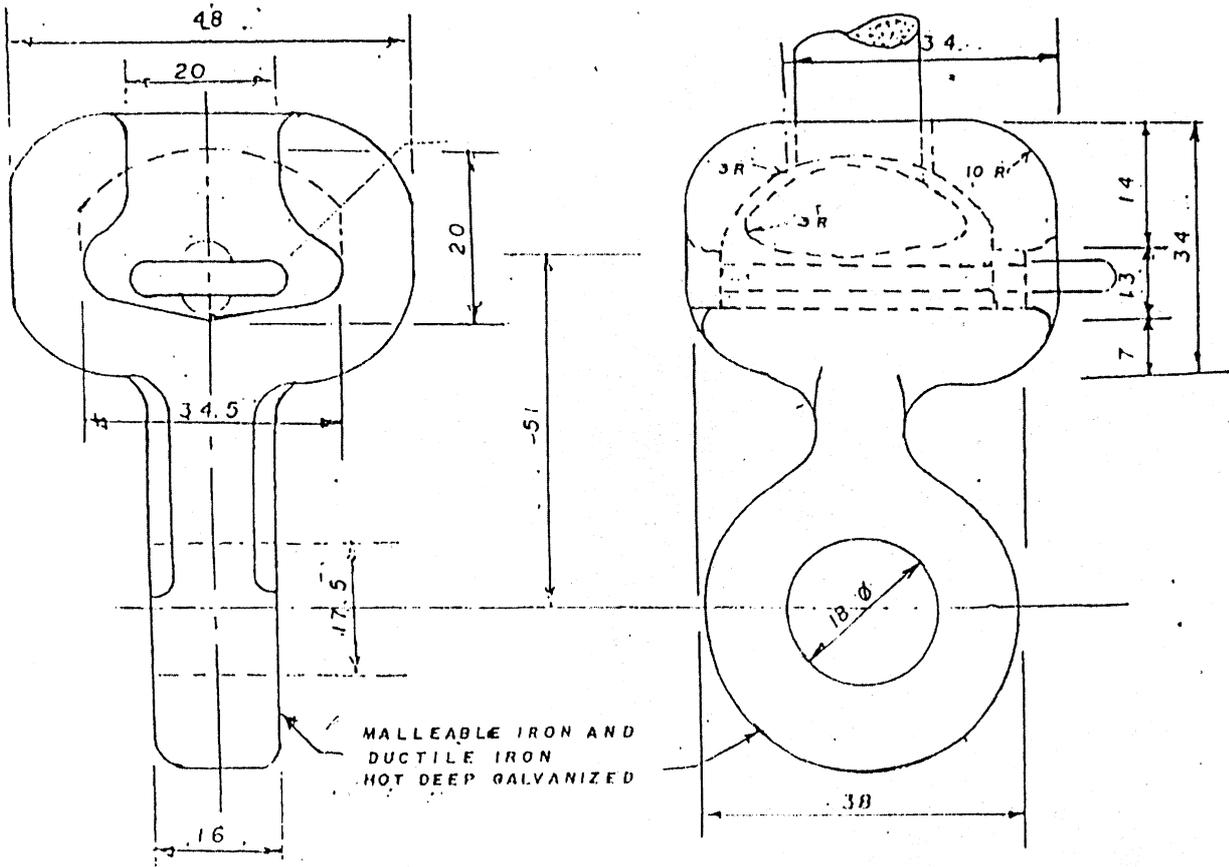
| | |
|---------------------|------|
| Scale | |
| Drawing No. | Rev. |
| I 002 | |
| Stock No. I05030101 | |

B A L L E Y E

W

Jan

Baker

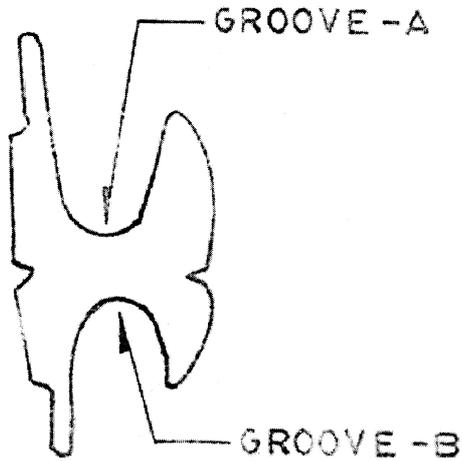
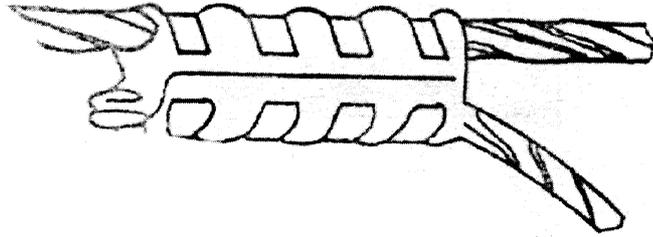


| | | | |
|---|--------------------|---------------------|------|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN & INSPECTION-II | Designed : M.J.H | Scale : | |
| | Drawn : S.S.Rahman | DRAWING NO. | REV. |
| SOCKET EYE 8 | Checked : M.J.H | 1003 | |
| | Approved : A.T.K. | | |
| | Date : SEPT. 85 | STOCK NO. IO3020101 | |

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Datta



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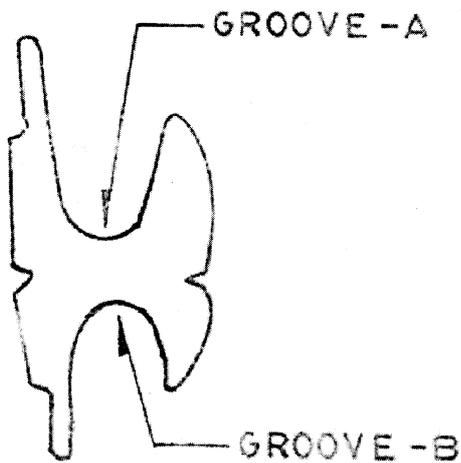
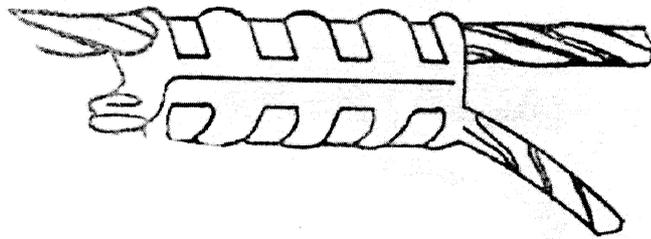
| Compatible for the Conductor | Grove A | | Grove B | | Length in mm |
|------------------------------|------------------------|------------------------|------------------------|------------------------|--------------|
| | Max (mm ²) | Min (mm ²) | Max (mm ²) | Min (mm ²) | |
| AAC ANT to AAC ANT | 70 | 50 | 70 | 50 | 47.00 |

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(Signature)

| | |
|--|-----------|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN & INSPECTION-II TITLE : H-TYPE COMPRESSION CONNECTOR | Designed: |
| | Drawn : |
| | Checked: |
| | Approved: |
| | Date : |



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| |

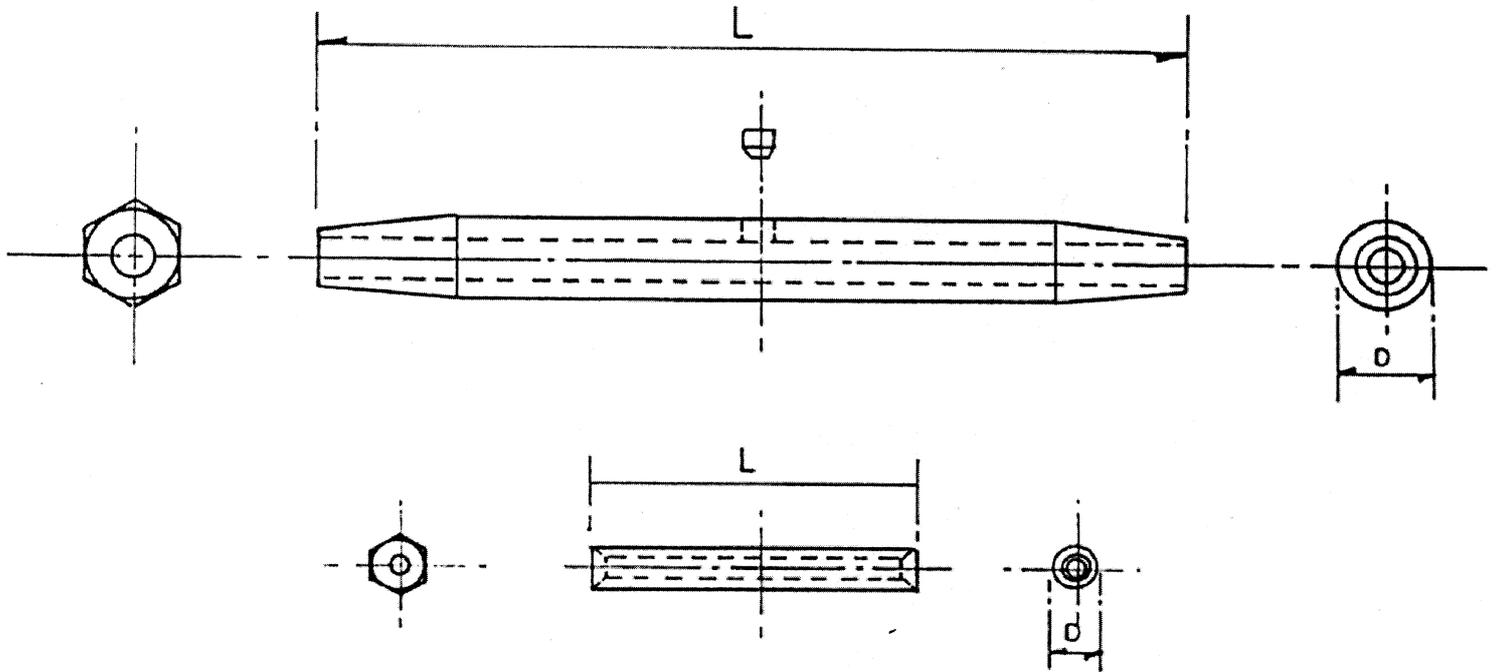
| Compatible for the Conductor | Grove A | | Grove B | | Length in mm |
|------------------------------|------------------------|------------------------|------------------------|------------------------|--------------|
| | Max (mm ²) | Min (mm ²) | Max (mm ²) | Min (mm ²) | |
| AAC WASP to AAC WASP | 120 | 95 | 120 | 95 | 63.00 |

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For

Date

| | |
|---|------------|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN & INSPECTION-II TITLE : H-TYPE COMPRESSION CONNECTOR | Designed : |
| | Drawn : |
| | Checked : |
| | Approved : |
| | Date : |



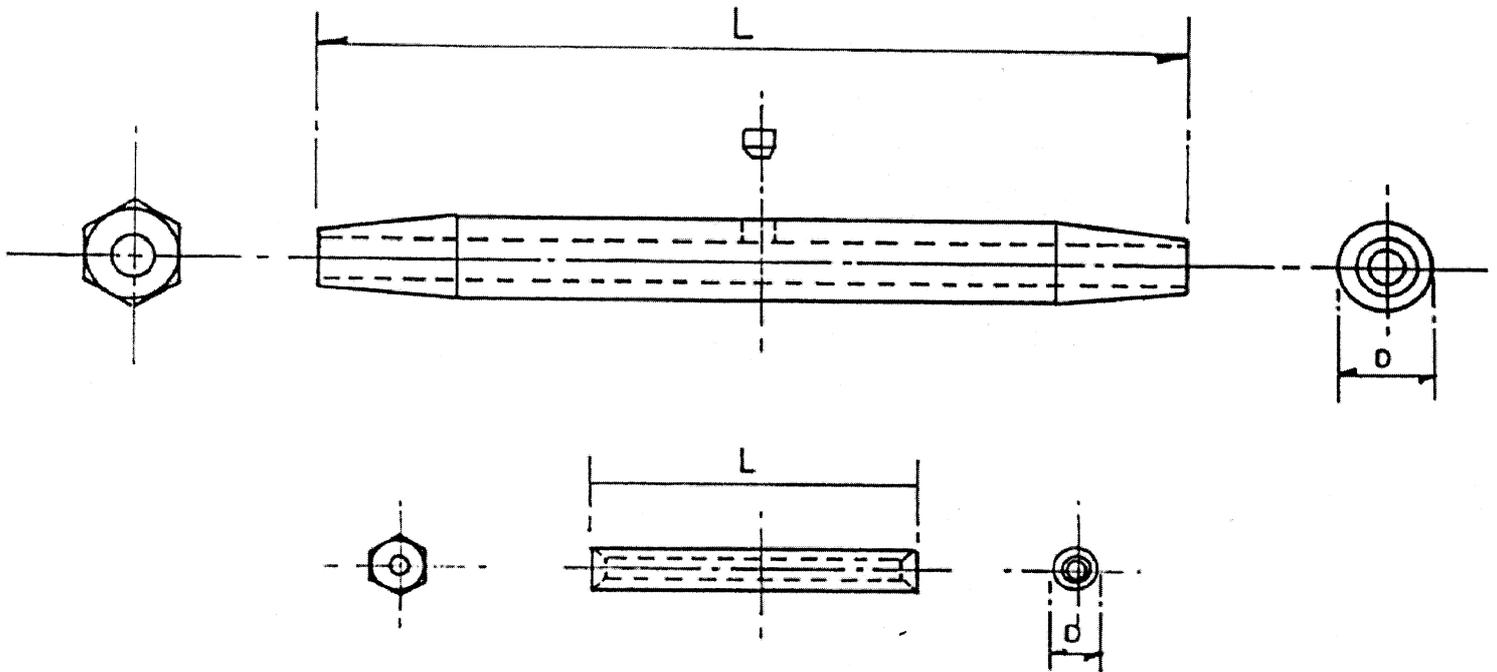
| Compatible for the Conductor | Aluminium Sleeve | | | Steel Sleeve | | |
|------------------------------|------------------|-------|-------|--------------|-----|-----|
| | L | OD | ID | L | od | id |
| AAC ANT | 200 mm | 18 mm | 12 mm | Nil | Nil | Nil |

W

Fm

Latka

| | | |
|--|------------|-------|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN INSPECTION-II. TITLE : MID-SPAN JOIN FOR ACSR/AA CONDUCTOR. | DESIGNED : | SCALE |
| | DRAWN : | DRG. |
| | CHECKED : | |
| | APPROVED : | |
| | DATE : | |



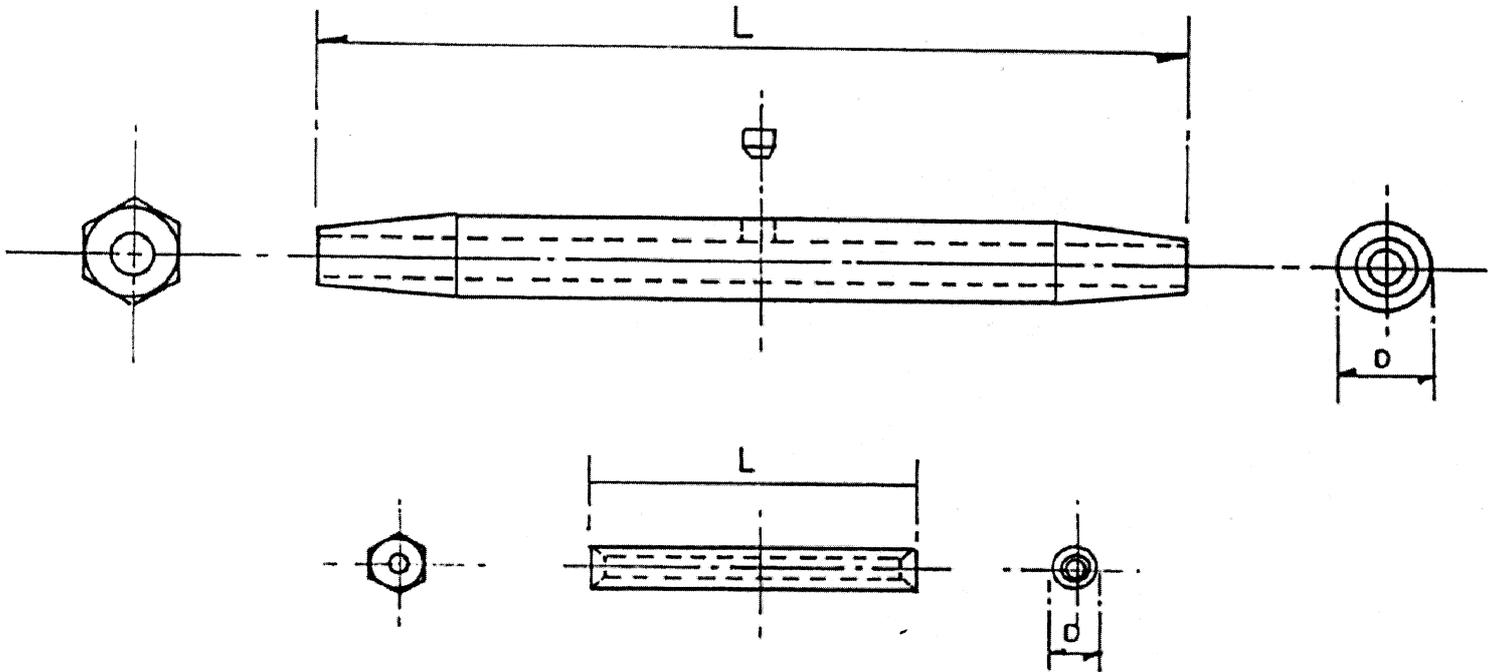
| Compatible for the Conductor | Aluminium Sleeve | | | Steel Sleeve | | |
|------------------------------|------------------|-------|-------|--------------|-----|-----|
| | L | OD | ID | L | od | id |
| AAC WASP | 270 mm | 22 mm | 15 mm | Nil | Nil | Nil |

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| | | |
|---|------------|-------|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN INSPECTION-II. TITLE : MID-SPAN JOIN FOR ACSR/AA CONDUCTOR. | DESIGNED : | SCALE |
| | DRAWN : | DRG. |
| | CHECKED : | |
| | APPROVED : | |
| | DATE : | |



| Compatible for the Conductor | Aluminium Sleeve | | | Steel Sleeve | | |
|------------------------------|------------------|-------|-------|--------------|-------|------|
| | L | OD | ID | L | od | id |
| ACSR DOG | 320 mm | 30 mm | 16 mm | 115 mm | 12 mm | 5 mm |

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| | | |
|--|------------|-------|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN INSPECTION-II. TITLE : MID-SPAN JOIN FOR ACSR/AA CONDUCTOR. | DESIGNED : | SCALE |
| | DRAWN : | DRG. |
| | CHECKED : | |
| | APPROVED : | |
| | DATE : | |

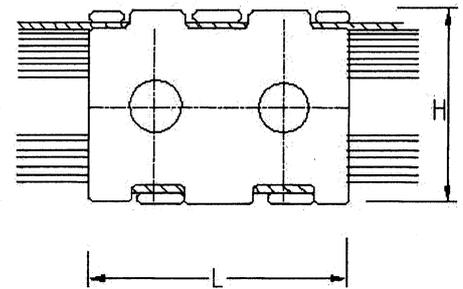
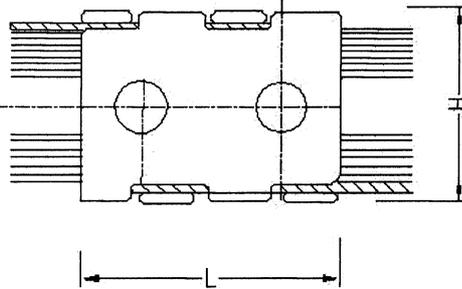
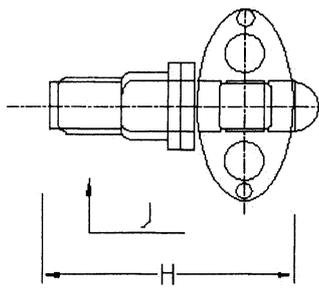


FIG. NO-1

FIG. NO-2

MATERIAL ALUMINUM ALLOY

| CODE NAME OF CONDUCTOR | NOMINAL AREA OF CONDUCTOR mm ² | CONDUCTOR DIA mm | DIMENSION OF PREFORM GRIP CLAMP | | NO. OF M.S. BOLT |
|------------------------|---|------------------|---------------------------------|--------|------------------|
| | | | L (mm) | W (mm) | |
| RABBIT | 50 | 10.05 | 80 | 22 | 2 |
| ANT | 50 | 9.3 | 80 | 22 | 2 |
| DOG | 100 | 14.15 | 95 | 30 | 2 |
| WASP | 100 | 13.17 | 95 | 30 | 2 |
| WOLF | 150 | 18.13 | 110 | 45 | 3 |
| MERLIN | 170 | 17.35 | 110 | 45 | 3 |
| GROSBEAK | 375 | 25.15 | 125 | 50 | 3 |

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BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II.

PARALLEL GROOVE CLAMP

DESIGNED :

CAD :

CHECKED :

APPROVED :

DATE :

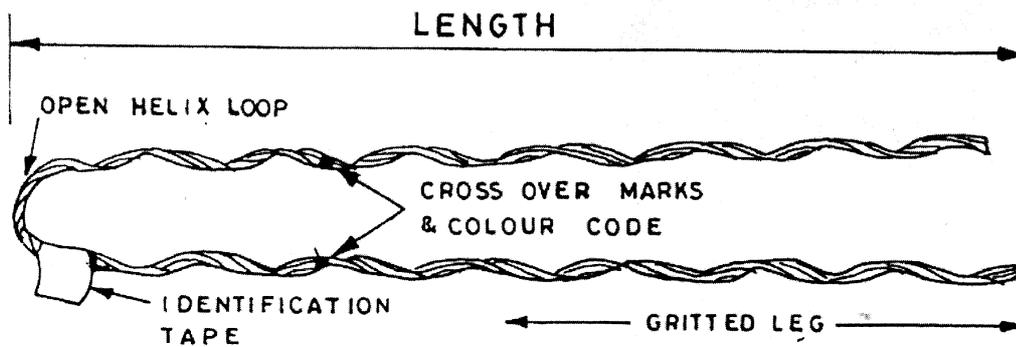
SCALE :

DRAWING NO. :

REV.

F 002

STOCK NO.



| Nominal Size (mm ²) | Conductor to be terminated | Length (mm) | No. of Rod (Nos.) | Min. Dia of Each Rod (mm) | Centre Color Code |
|---------------------------------|----------------------------|-------------|-------------------|---------------------------|-------------------|
| 50 | Galvanized Steel Guy Wire. | 900 | 06 | 2.59 | Black |

(Signature)

Fai

Baker

BAHANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION—II.

FILE :—

PREFORMED TERMINATION

Designed:

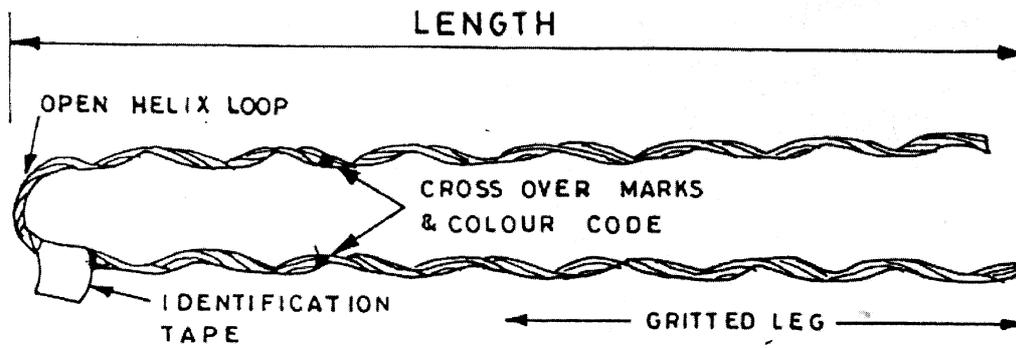
Drawn :

Checked:

Approved:

Date:

DRG. NO.



| Nominal Size (mm ²) | Conductor to be terminated | Length (mm) | No. of Rod (Nos.) | Min. Dia of Each Rod (mm) | Centre Color Code |
|---------------------------------|-----------------------------------|-------------|-------------------|---------------------------|-------------------|
| 50 | AAC ANT, PVC Insulated Conductor. | 700 | 06 | 2.59 | White |

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BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION—II.

FILE : —

PREFORMED TERMINATION

Designed:

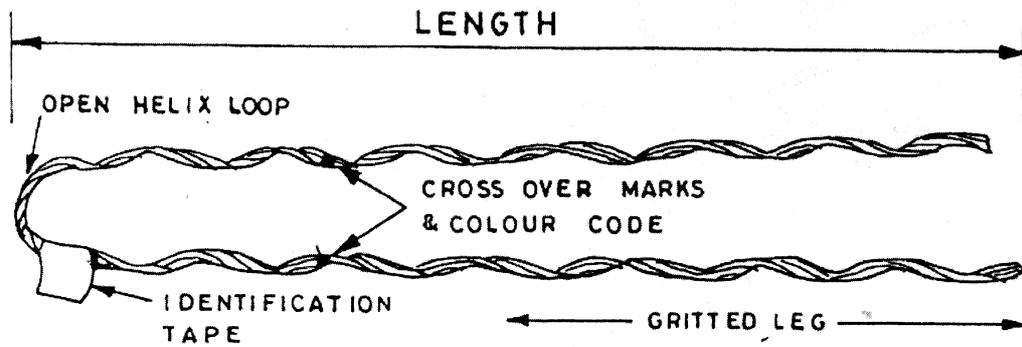
Drawn :

Checked:

Approved:

Date:

DRG. NO.



| Nominal Size (mm ²) | Conductor to be terminated | Length (mm) | No. of Rod (Nos.) | Min. Dia of Each Rod (mm) | Centre Color Code |
|---------------------------------|------------------------------------|-------------|-------------------|---------------------------|-------------------|
| 100 | AAC WASP, PVC Insulated Conductor. | 800 | 06 | 3.17 | Yellow |

(W)

FR

Baker

BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION—11.

FILE : —

PREFORMED TERMINATION

Designed:

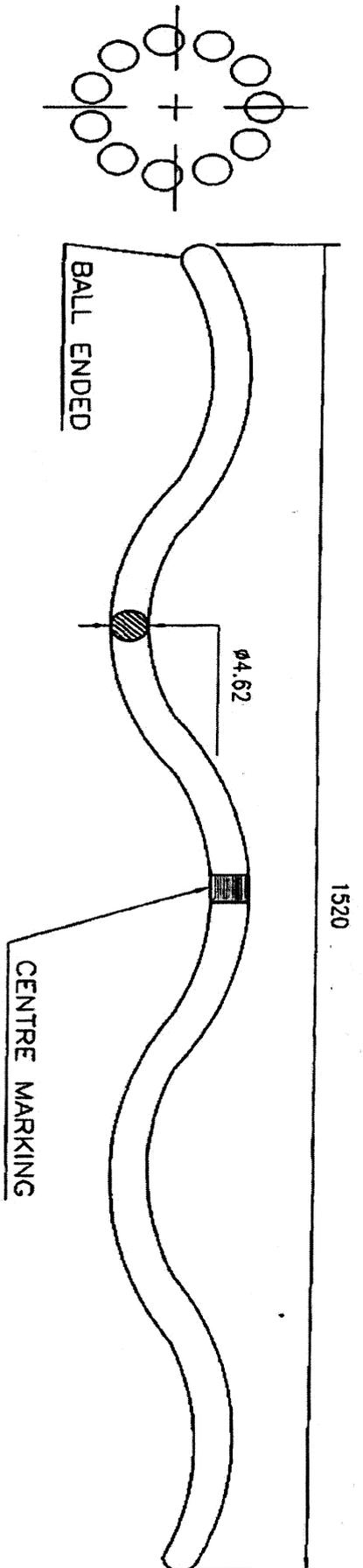
Drawn :

Checked:

Approved:

Date:

DRG. NO.

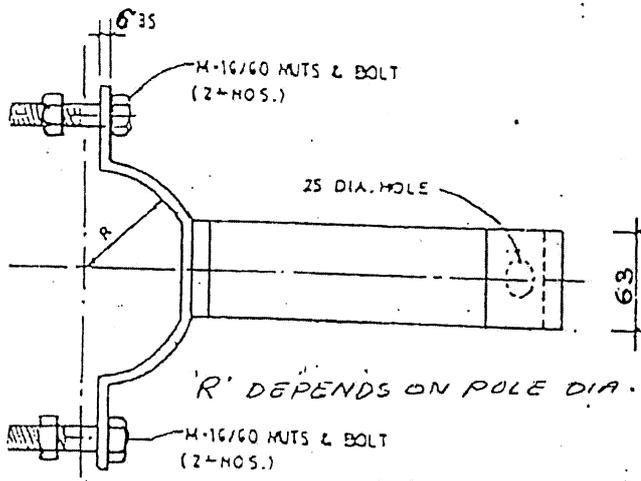
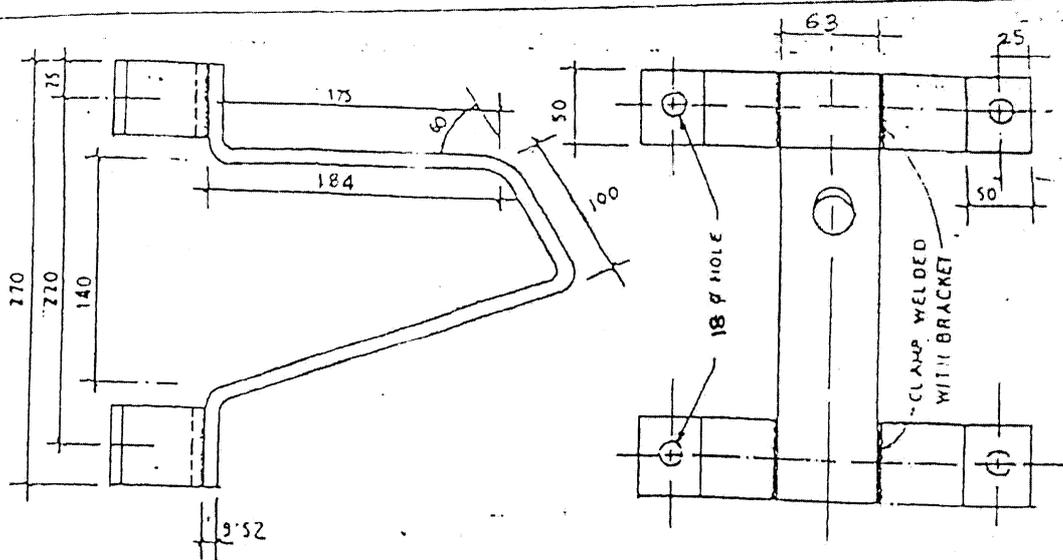


TECHNICAL DATA:-

1. MATERIAL : HIGH STRENGTH AL ALLOY (GRADE 6061).
2. CONDUCTIVITY : 39% OF I A C S * MINIMUM.
3. U.T.S. OF EACH ROD : 35 KG/SQ. mm.(MIN).
4. LAY DIRECTION : RIGHT HAND.
5. NOS. OF RODS PER SET 11 Pcs.

Fig.: Armor Rod for ACSR DOG Conductor

Handwritten signatures and initials:



NOTES:

1. DIMENSIONS : IN MM AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS EN ISO 1461:1999
4. TOLERANCES : $\pm 1.2\%$
- MATERIAL SIZES : $\pm 1.2\%$
- THICKNESS : -0%, +10%.

BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION -II

DRAWING TITLE : SIDE MOUNT BRACKET

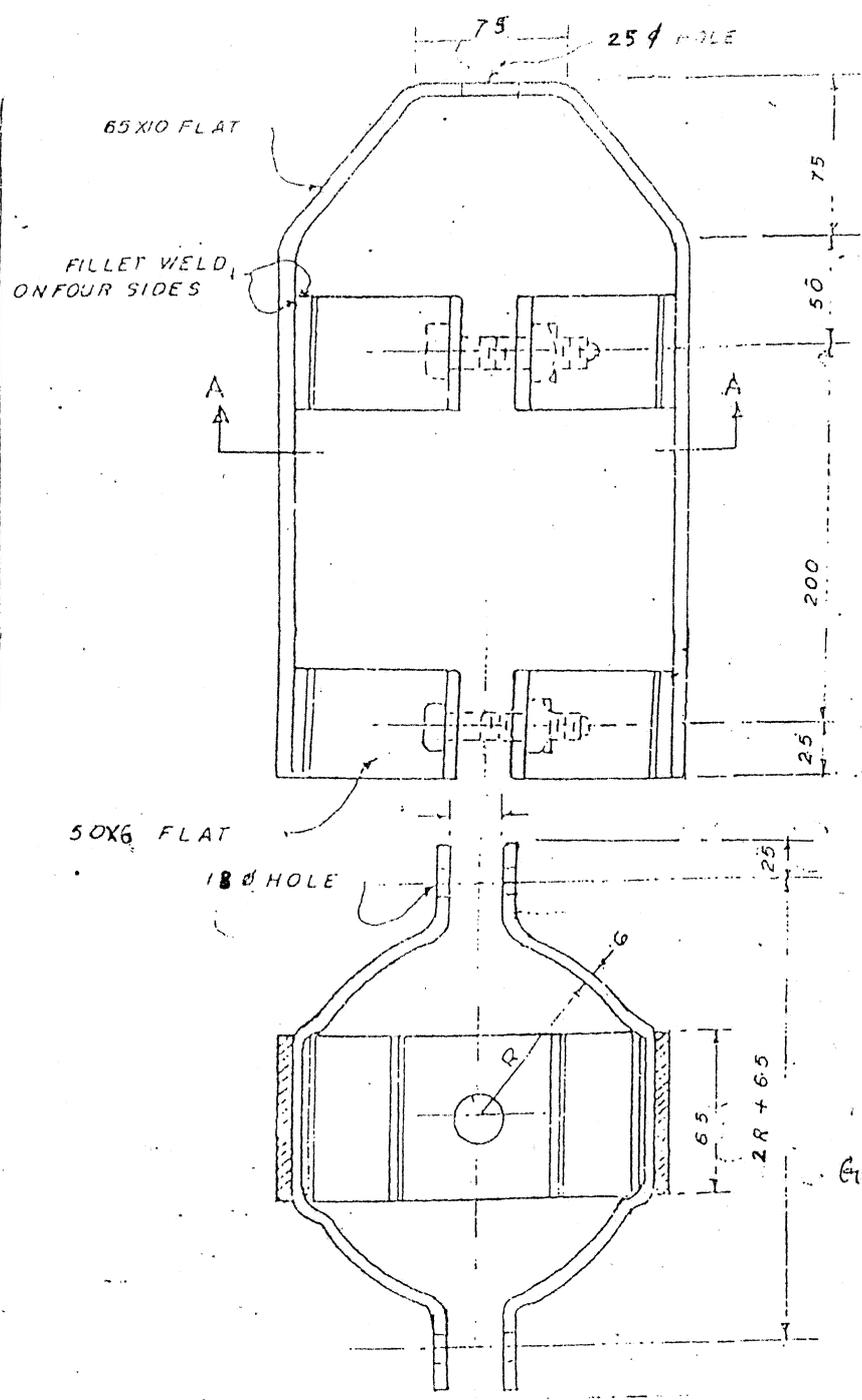
DRAWING NO. : FT - 02

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8730



GALVANIZING: HOT DIP AS
 PER IS EN ISO:
 1461:1999
 MATERIAL SIZES: ±1mm
 THICKNESS: -0%, +1

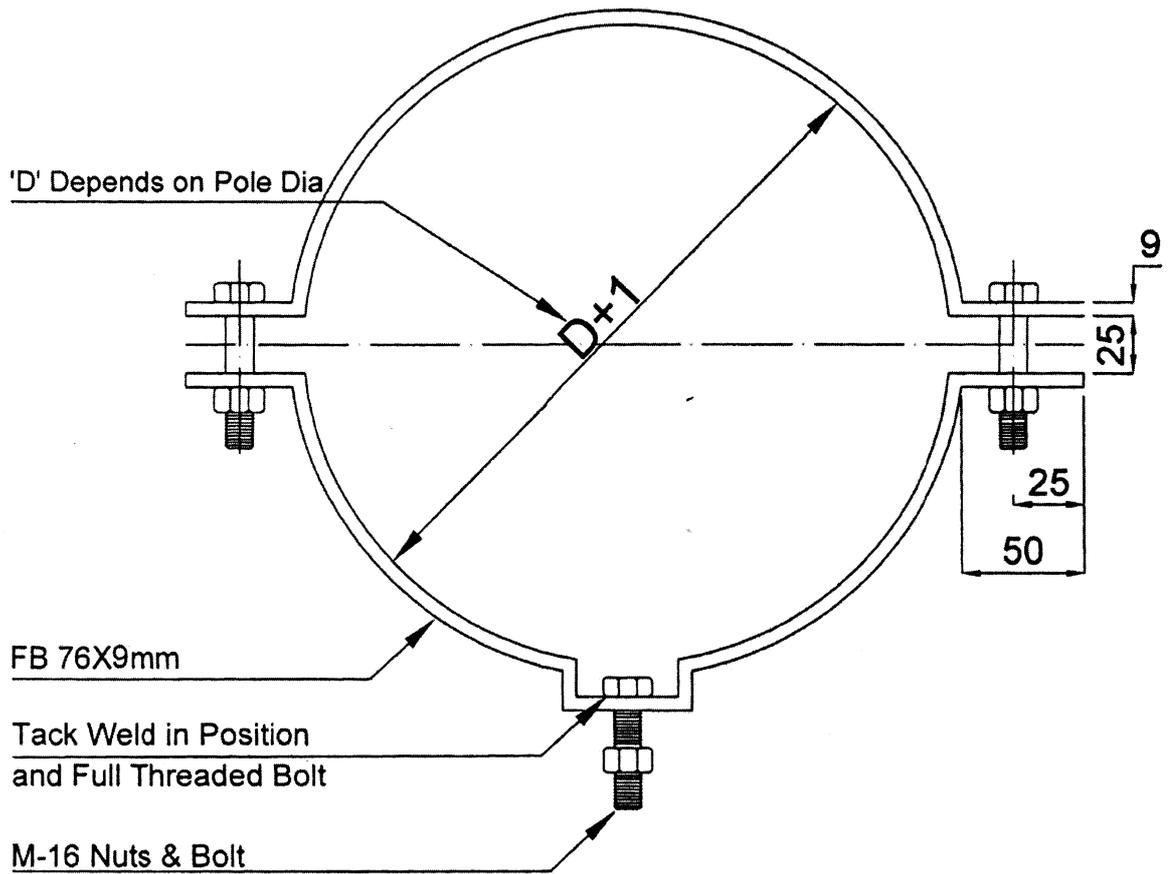
SECTION-AA R = Pole Radius

| | | | |
|---|---------------------|---------------------|------|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN & INSPECTION-II RIDGE IRON FOR 11KV. SP-II TYPE STEEL POLE. | DESIGNED: BVI | SCALE: | |
| | DRAWN: S. S. RAHMAN | DRAWING NO. FT-01 | REV. |
| | CHECKED: M. RAHMAN | H 003 | |
| | APPROVED: A. T. A. | STORE NO. H01000100 | |
| | DATE: 20.1.86 | | |

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STUD CLAMP FOR 1-Phase Transformer



NOTES :

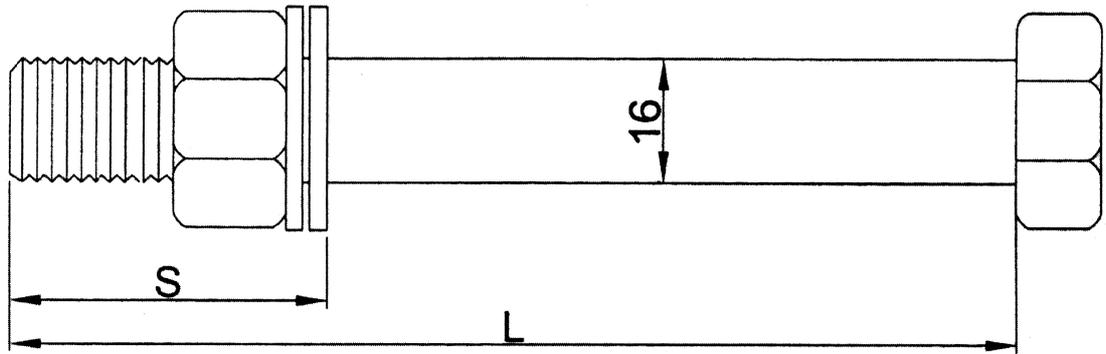
1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS EN ISO 1461:1999
4. TOLERANCES :
MATERIAL SIZES : $\pm 1\text{mm}$
THICKNESS : $-0\% +10\%$

BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

DRAWING NAME : STUD CLAMP FOR 1-P Transformer

DRAWING NO : FT-11B

Baker.



| | | | | | | |
|------|----|-----|-----|-----|-----|-----|
| L mm | 60 | 100 | 250 | 280 | 300 | 350 |
| S mm | 50 | 80 | 230 | 260 | 280 | 330 |

NOTES :

1. DIMENSIONS : IN mm AFTER HOT DIP GALVANIZING.
2. MATERIALS : MILD STEEL.
3. GALVANIZING : HOT DIP AS PER BS EN ISO 1461:1999
4. TOLERANCES :
 MATERIAL SIZES : $\pm 1\text{mm}$
 THICKNESS : $-0\% +10\%$

BANGLADESH POWER DEVELOPMENT BOARD
DIRECTORATE OF DESIGN & INSPECTION-II

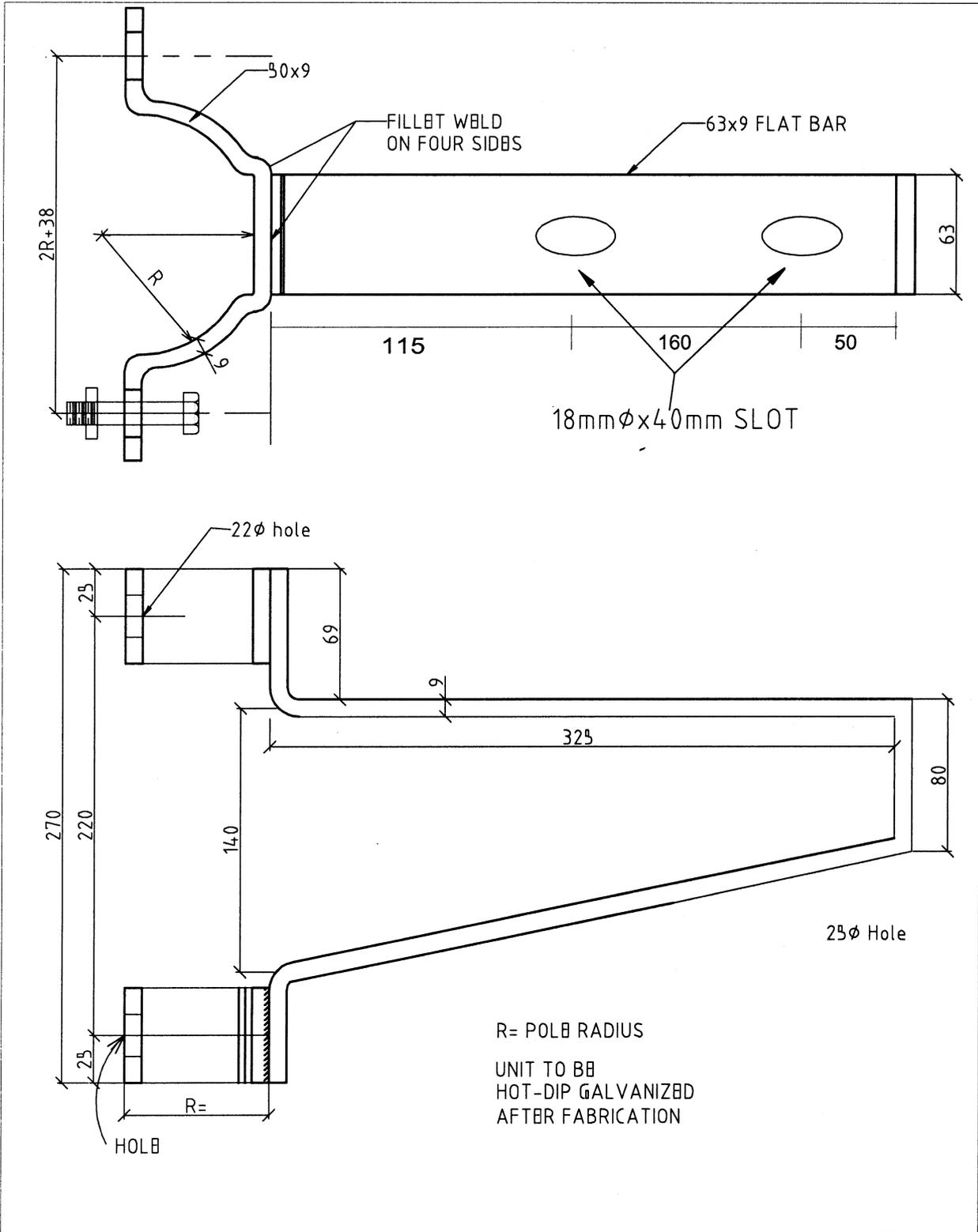
DRAWING NAME : M16 BOLTS & NUTS WITH PLAIN WASHER &
 SPRING WASHER

DRAWING NO : FT-28

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R= POLB RADIUS
 UNIT TO BB
 HOT-DIP GALVANIZED
 AFTER FABRICATION

| | | | |
|---|------------|---------------|--------|
| BANGLADESH POWER DEVELOPMENT BOARD DIRECTORATE OF DESIGN & INSPECTION-II | DBSIGNBD : | SCALB : | |
| | CAD : | DRAWING NO. : | RBV. : |
| SIDB MOUNT BRACKET FOR MOUNTING OF 11 KV DOFC & LA | CHCKBBD : | | |
| | APPROVBD : | | |
| | DATB : | | |

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