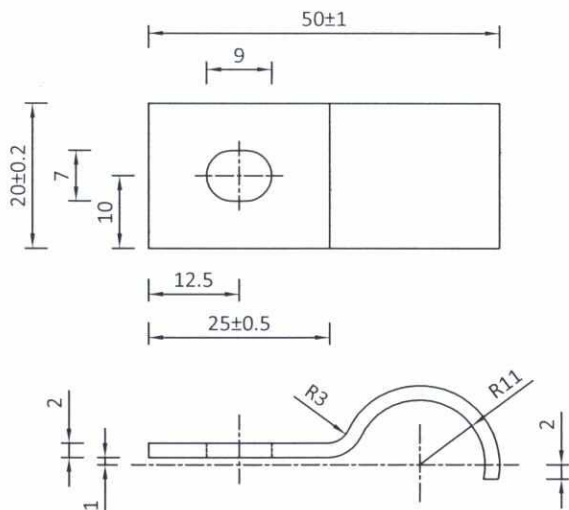


CAUTION :

| REV | DATE | ALTERED :    |
|-----|------|--------------|
|     |      | CHD./APPD. : |




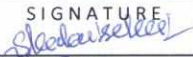







| DETAIL                          |
|---------------------------------|
| 1. MATERIAL CODE : 96424143     |
| 2. MATERIAL : STEEL             |
| 3. QUANTITY / FEEDER : 3 Nos.   |
| 4. LOCATION : CONDUIT ASSEMBLY. |
| 5. FEEDER SIZE : 36" / 24"      |
| 6. M/S STOCK PART NO. FE 837    |

| NOTE  |
|---|
| 1. TOLERANCE : UNTOLERENCED DIMENSIONS TO BE MAINTAINED WITHIN $\pm 0.2$ mm.  |
| 2. SHALL BE FREE FROM CRACKS AND SHARP CORNERS TO BE ROUNDED OFF. TO BE GALVANIZED TO A THICKNESS OF 0.008 TO 0.012 mm. |

THIS DRG SUPERSEDS EARLIER SPEC. NO. GF-138 REV.03

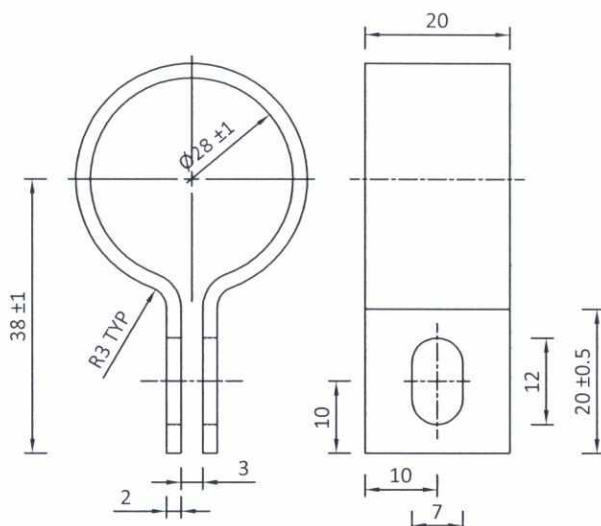
TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER / PROJECT

GRAVIMETRIC COAL FEEDER CONTROLS

|  |  |  |  |   |  |   |  |   |  |   |  |  |  |  |  |
|--|--|--|--|---|--|---|--|---|--|---|--|--|--|--|--|
| <div><div>बी एच ई एल</div><div></div></div> |  | <div>Bharat Heavy Electricals Ltd</div> <div>UNIT : HIGH PRESSURE BOILER PLANT</div> <div>TIRUCHIRAPPALLI - 620014</div> |  | <div>DRN</div> <div>S.Kalaiselvi</div>                    |  | <div>SIGNATURE</div> <div></div> |  | <div>DATE</div> <div>11-04-18</div>   |  | <div>NO. OF</div> <div>VAR</div>  |  |  |  |  |  |
|  |  |  |  | <div>CHD</div> <div>K.Veeramani</div>                     |  | <div></div>                      |  | <div>30-07-18</div>   |  | <div>—</div>  |  |  |  |  |  |
|  |  |  |  | <div>APPD</div> <div>T.Kanagaraj</div>                    |  | <div></div>                      |  | <div>30-07-18</div>   |  | <div>—</div>  |  |  |  |  |  |
| <div>DEPT. : C &amp; I</div>   |  | <div></div>                           |  | <div>ALL</div> <div>DIMENSIONS</div> <div>ARE IN MM</div> |  | <div>SCALE</div> <div>NTS</div>   |  | <div>WEIGHT (Kg)</div> <div></div> |  | <div>REF TO ASSY / OLD DWG</div> <div></div> |  | <div>ITEM</div> <div>NO</div> <div></div> |  | <div>No OF</div> <div>ITEMS</div> <div></div> |  |
| <div>CODE : 392</div>  |  |  |  |   |  |   |  |   |  |   |  |  |  |  |  |
| <div>TITLE:</div> <div>TECHNICAL SPECIFICATION FOR</div> <div>1/2" CONDUIT CLAMP</div>   |  |  |  |   |  |   |  | <div>CARD</div> <div>CODE</div> <div>U 01</div>   |  | <div>DRAWING NO :</div> <div>4-95-488-05874</div> <div>Sheet 01 of 01</div>   |  |  |  | <div>REV</div> <div>00</div>   |  |

CAUTION :

| REV | DATE | ALTERED :    |
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|     |      | CHD./APPD. : |




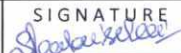



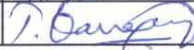





| DETAIL                          |
|---------------------------------|
| 1. MATERIAL CODE : 96424145     |
| 2. MATERIAL : STEEL             |
| 3. QUANTITY / FEEDER : 1 No.    |
| 4. LOCATION : CONDUIT ASSEMBLY. |
| 5. FEEDER SIZE : 36" / 24"      |
| 6. M/S STOCK PART NO. FE 7880   |

| NOTE  |
|---|
| 1. TOLERANCE : UNTOLERENCED DIMENSIONS TO BE MAINTAINED WITHIN $\pm 0.2$ mm.  |
| 2. SHALL BE FREE FROM CRACKS AND SHARP CORNERS TO BE ROUNDED OFF. TO BE GALVANIZED TO A THICKNESS OF 0.008 TO 0.012 mm. |

THIS DRG SUPERSEDS EARLIER SPEC. NO. GF-139 REV.02

TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER / PROJECT

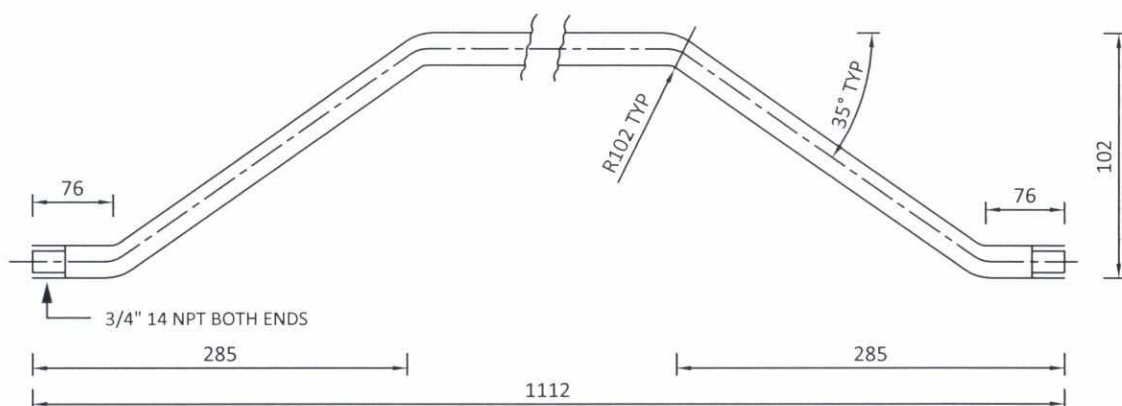
GRAVIMETRIC COAL FEEDER CONTROLS

|  |  |  |  |  |  |   |  |   |  |   |  |  |  |  |  |
|--|--|--|--|--|--|---|--|---|--|---|--|--|--|--|--|
| <div><div>बी एच ई एल</div><div></div></div>                                 |  |  |  | <div>Bharat Heavy Electricals Ltd</div> <div>UNIT : HIGH PRESSURE BOILER PLANT</div> <div>TIRUCHIRAPPALLI - 620014</div> |  | <div>DRN</div> <div>S.Kalaiselvi</div> <div></div> <div>DATE</div> <div>11-04-18</div> |  | <div>NO. OF</div> <div>VAR</div> <div></div> |  |   |  |  |  |  |  |
|  |  | <div>CHD</div> <div>K.Veeramani</div> <div></div> <div>30-07-18</div> |  |  |  | <div>NO. OF</div> <div>ITEMS</div> <div></div>   |  |   |  |   |  |  |  |  |  |
| <div>A P P D</div> <div>T.Kanagaraj</div> <div></div> <div>30-07-18</div> |  |  |  |  |  | <div>NO. OF</div> <div>REV</div> <div>00</div>  |  |   |  |   |  |  |  |  |  |
| <div>DEPT. : C &amp; I</div>   |  | <div></div>   |  | <div>ALL</div> <div>DIMENSIONS</div> <div>ARE IN MM</div>  |  | <div>SCALE</div> <div>NTS</div>   |  | <div>WEIGHT (Kg)</div> <div></div>             |  | <div>REF TO ASSY / OLD DWG</div> <div></div> |  | <div>ITEM</div> <div>NO</div> <div></div> |  | <div>No OF</div> <div>ITEMS</div> <div></div> |  |
| <div>CODE : 392</div>  |  |  |  |  |  |   |  |   |  |   |  |  |  |  |  |
| <div>TITLE:</div> <div>TECHNICAL SPECIFICATION FOR</div> <div>3/4" U CLAMP</div>   |  |  |  |  |  |   |  | <div>CARD</div> <div>CODE</div> <div>U 01</div>   |  | <div>DRAWING NO :</div> <div>4-95-488-05875</div> <div>Sheet 01 of 01</div>   |  |  |  |  |  |

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CAUTION :

|     |      |              |
|-----|------|--------------|
| REV | DATE | ALTERED :    |
|     |      | CHD./APPD. : |



#### DETAIL

1. MATERIAL CODE : 96424146
2. QUANTITY / FEEDER : 1No.
3. LOCATION : CONDUIT ASSEMBLY.
4. MATERIAL : CARBON STEEL PIPE A120 OR EQUIVALENT 3/4" SCH 40
5. FEEDER SIZE : 36"
6. M/S STOCK PART NO. B 10161-1











#### NOTE

1. BLACK OXIDE COATED OR GALVANISHED TO A THICKNESS OF 0.025MM
2. LENGTH BEFORE BENDING 1170 +5 -0.

THIS DRG SUPERSEDS EARLIER SPEC. NO. GF-141 REV.00

TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER / PROJECT

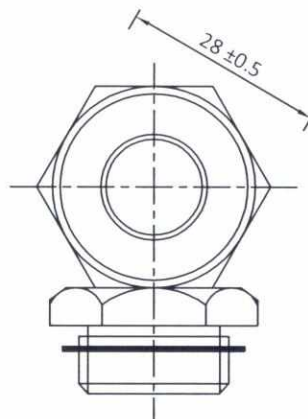
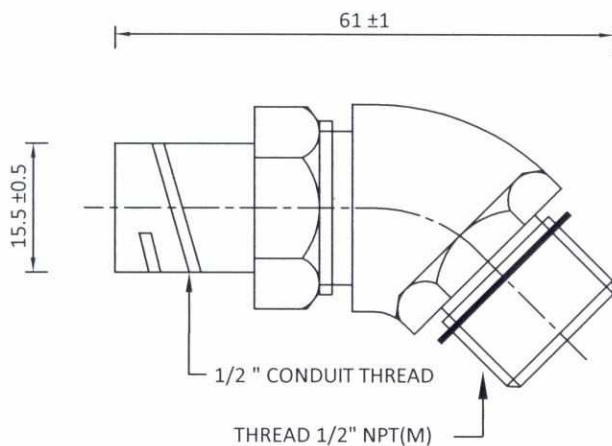
GRAVIMETRIC COAL FEEDER CONTROLS

|  |  |  |  |   |  |   |  |   |  |   |  |  |  |  |                              |  |
|--|--|--|--|---|--|---|--|---|--|---|--|--|--|--|------------------------------|--|
| <div><div>बी एच ई एल</div><div></div></div> |  | <div>Bharat Heavy Electricals Ltd</div> <div>UNIT : HIGH PRESSURE BOILER PLANT</div> <div>TIRUCHIRAPPALLI - 620014</div> |  | <div>DRN</div> <div>S.Kalaiselvi</div>                    |  | <div>SIGNATURE</div> <div></div> |  | <div>DATE</div> <div>11-04-18</div>   |  | <div>NO. OF</div> <div>VAR</div> <div></div> |  |  |  |  |                              |  |
|  |  |  |  | <div>CHD</div> <div>K.Veeramani</div>                     |  | <div></div>                      |  | <div>30-07-18</div>   |  |   |  |  |  |  |                              |  |
|  |  |  |  | <div>APPD</div> <div>T.Kanagaraj</div>                    |  | <div></div>                      |  | <div>30-07-18</div>   |  |   |  |  |  |  |                              |  |
| <div>DEPT. : C &amp; I</div>   |  | <div></div>                           |  | <div>ALL</div> <div>DIMENSIONS</div> <div>ARE IN MM</div> |  | <div>SCALE</div> <div>NTS</div>   |  | <div>WEIGHT (Kg)</div> <div></div> |  | <div>REF TO ASSY / OLD DWG</div> <div></div> |  | <div>ITEM</div> <div>NO</div> <div></div> |  | <div>No OF</div> <div>ITEMS</div> <div></div> |                              |  |
| <div>CODE : 392</div>  |  |  |  |   |  |   |  |   |  |   |  |  |  |  |                              |  |
| <div>TITLE:</div> <div>TECHNICAL SPECIFICATION FOR</div> <div>3/4" PIPE CONDUIT</div>  |  |  |  |   |  |   |  | <div>CARD</div> <div>CODE</div> <div>U 01</div>   |  | <div>DRAWING NO :</div> <div>4-95-488-05876</div> <div>Sheet 01 of 01</div>   |  |  |  |  | <div>REV</div> <div>00</div> |  |

FILE NAME: GFSPC141

CAUTION :

|     |      |              |
|-----|------|--------------|
| REV | DATE | ALTERED :    |
|     |      | CHD./APPD. : |



#### DETAIL

1. MATERIAL CODE : 96424159
2. QUANTITY / FEEDER : 5 Nos.
3. LOCATION : CONDUIT ASSEMBLY.
4. MATERIAL : CAST IRON
5. FEEDER SIZE : 36" / 24"









#### NOTE

1. LOCK NUT SHALL BE ZINC PLATED TO 8-12 MICRONS.

THIS DRG SUPERSEDS EARLIER SPEC. NO. GF-162 REV.02

TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER / PROJECT

GRAVIMETRIC COAL FEEDER CONTROLS

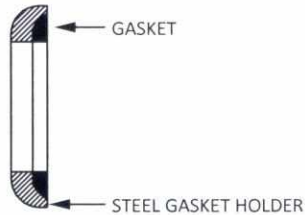
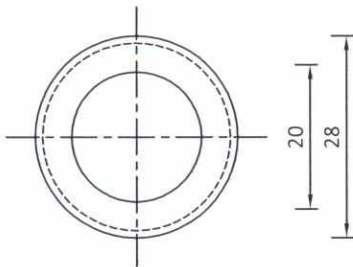
|   |  |   |                                |              |  |  |  |   |   |
|---|--|---|--------------------------------|--------------|--|--|--|---|---|
| <div><div>वी एच ई एल</div><div>BHEL</div></div>                                     |  | Bharat Heavy Electricals Ltd<br>UNIT : HIGH PRESSURE BOILER PLANT<br>TIRUCHIRAPPALLI - 620014 |                                | DRN          |  | NAME<br>S.Kalaiselvi   | SIGNATURE<br> | DATE<br>11-04-18  | NO. OF<br>VAR   |
|   |  |   |                                | CHD          |  | K.Veeramani  |               | 30-07-18  | —   |
|   |  |   |                                | APPD         |  | T.Kanagaraj  |               | 30-07-18  | —   |
| DEPT. : C & I   |  |            | ALL<br>DIMENSIONS<br>ARE IN MM | SCALE<br>NTS | WEIGHT (Kg)<br> | REF TO ASSY / OLD DWG<br> |  | ITEM<br>NO<br> | No OF<br>ITEMS<br> |
| CODE : 392  |  |   |                                |              |  |  |  |   |   |
| TITLE:<br>TECHNICAL SPECIFICATION FOR<br>CONNECTOR - 45° 1/2" CONDUIT - 1/2" NPT(M) |  |   |                                |              | CARD<br>CODE<br>U 01   | DRAWING NO :<br>4-95-488-05879<br>Sheet 01 of 01   |  |   | REV<br>00   |



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CAUTION :

|     |      |              |
|-----|------|--------------|
| REV | DATE | ALTERED :    |
|     |      | CHD./APPD. : |



#### DETAIL

1. MATERIAL CODE : 96424162
2. QTY. / FEEDER : 9 Nos.
3. LOCATION : CONDUIT ASSEMBLY.
4. MATERIAL : SHEET STEEL WITH NEOPRENE RUBBER
5. FEEDER SIZE : 36" / 24"

#### NOTE

1. DIMENSIONAL TOLERANCE  $\pm 1$  MM

THIS DRG SUPERSEDS EARLIER SPEC. NO. GF-166 REV.01

TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER / PROJECT

GRAVIMETRIC COAL FEEDER CONTROLS



**Bharat Heavy Electricals Ltd**  
UNIT : HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPPALLI - 620014

|      |                      |                                  |                  |               |
|------|----------------------|----------------------------------|------------------|---------------|
| DRN  | NAME<br>S.Kalaiselvi | SIGNATURE<br><i>S.Kalaiselvi</i> | DATE<br>11-04-18 | NO. OF<br>VAR |
| CHD  | K.Veeramani          | <i>K.Veeramani</i>               | 30-07-18         | —             |
| APPD | T.Kanagaraj          | <i>T.Kanagaraj</i>               | 30-07-18         | —             |

DEPT. : C&I



ALL  
DIMENSIONS  
ARE IN MM

SCALE  
NTS

WEIGHT (Kg)  
—

REF TO ASSY / OLD DWG

ITEM  
NO  
—

No OF  
ITEMS  
—

TITLE:

TECHNICAL SPECIFICATION FOR  
1/2" GASKET SEALING

CARD  
CODE  
U 01

DRAWING NO :

4-95-488-05882

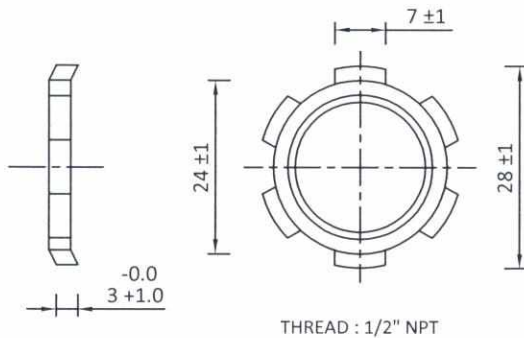
Sheet 01 of 01

REV  
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CAUTION :

|     |      |              |
|-----|------|--------------|
| REV | DATE | ALTERED :    |
|     |      | CHD./APPD. : |



#### DETAIL

1. MATERIAL CODE : 96424171
2. QUANTITY / FEEDER : 9 Nos.
3. LOCATION : CONDUIT ASSEMBLY.
4. MATERIAL : CAST IRON
5. FEEDER SIZE : 36" / 24"

#### NOTE

1. LOCK NUT SHALL BE ZINC PLATED TO 8-12 MICRONS.

THIS DRG SUPERSEDS EARLIER SPEC. NO. GF-167 REV.02

TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER / PROJECT

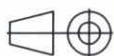
GRAVIMETRIC COAL FEEDER CONTROLS



**Bharat Heavy Electricals Ltd**  
UNIT : HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPPALLI - 620014

|      |                      |                                  |                  |               |
|------|----------------------|----------------------------------|------------------|---------------|
| DRN  | NAME<br>S.Kalaiselvi | SIGNATURE<br><i>S.Kalaiselvi</i> | DATE<br>11-04-18 | NO. OF<br>VAR |
| CHD  | K.Veeramani          | <i>K.Veeramani</i>               | 30-07-18         | —             |
| APPD | T.Kanagaraj          | <i>T.Kanagaraj</i>               | 30-07-18         | —             |

DEPT. : C&I



ALL  
DIMENSIONS  
ARE IN MM

SCALE  
NTS

WEIGHT (Kg)  
—

REF TO ASSY / OLD DWG

ITEM  
NO  
—

No OF  
ITEMS  
—

TITLE:

TECHNICAL SPECIFICATION FOR  
LOCK NUT 1/2"

CARD  
CODE  
U 01

DRAWING NO :

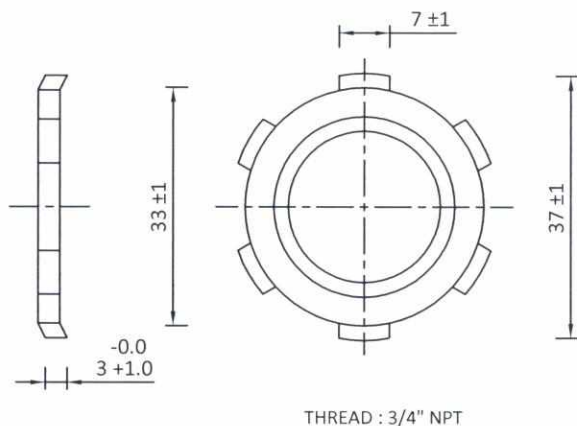
4-95-488-05883

Sheet 01 of 01

REV  
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CAUTION :

|     |      |              |
|-----|------|--------------|
| REV | DATE | ALTERED :    |
|     |      | CHD./APPD. : |



THREAD : 3/4" NPT

#### DETAIL

1. MATERIAL CODE : 96424172
2. QUANTITY / FEEDER : 4 Nos.
3. LOCATION : CONDUIT ASSEMBLY.
4. MATERIAL : STEEL
5. FEEDER SIZE : 36" / 24"

#### NOTE

1. LOCK NUT SHALL BE ZINC PLATED TO 8-12 MICRONS.

THIS DRG SUPERSEDS EARLIER SPEC. NO. GF-172 REV.02

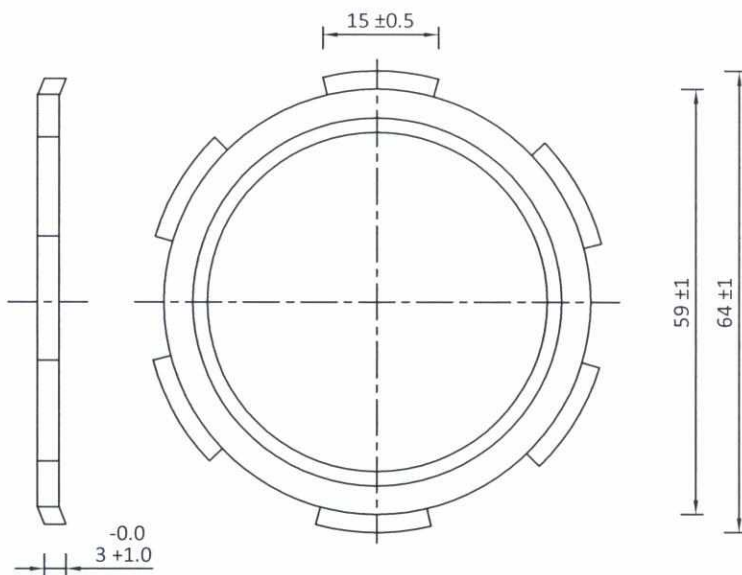
TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER / PROJECT

GRAVIMETRIC COAL FEEDER CONTROLS

|  |  |   |                                |              |                          |  |                                  |                  |                    |
|--|--|---|--------------------------------|--------------|--------------------------|--|----------------------------------|------------------|--------------------|
| <div><div>वी एच ई एल</div><div>BHEL</div></div>            |  | Bharat Heavy Electricals Ltd<br>UNIT : HIGH PRESSURE BOILER PLANT<br>TIRUCHIRAPPALLI - 620014 |                                | DRN          |                          | NAME<br>S.Kalaiselvi                                     | SIGNATURE<br><i>S.Kalaiselvi</i> | DATE<br>11-04-18 | NO.OF<br>VAR       |
|  |  |   |                                | CHD          |                          | K.Veeramani  | <i>K.Veeramani</i>               | 30-07-18         | —                  |
|  |  |   |                                | APPD         |                          | T.Kanagaraj  | <i>T.Kanagaraj</i>               | 30-07-18         | —                  |
| DEPT. : C&I  |  |   | ALL<br>DIMENSIONS<br>ARE IN MM | SCALE<br>NTS | WEIGHT (Kg)<br>          | REF TO ASSY / OLD DWG<br>                                |                                  | ITEM<br>NO<br>   | No OF<br>ITEMS<br> |
| CODE : 392   |  |   |                                |              |                          |  |                                  |                  |                    |
| TITLE:<br><br>TECHNICAL SPECIFICATION FOR<br>3/4" LOCK NUT |  |   |                                |              | CARD<br>CODE<br><br>U 01 | DRAWING NO :<br><br>4-95-488-05885<br><br>Sheet 01 of 01 |                                  |                  | REV<br><br>00      |

CAUTION :

| REV | DATE | ALTERED :    |
|-----|------|--------------|
|     |      | CHD./APPD. : |



THREAD : 1 1/2" NPT

#### DETAIL

1. MATERIAL CODE : 96424174
2. QTY. / FEEDER : 2 Nos.
3. LOCATION : CONDUIT ASSEMBLY.
4. MATERIAL : STEEL
5. FEEDER SIZE : 36" / 24"





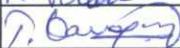





#### NOTE

1. LOCK NUT SHALL BE ZINC PLATED TO 8-12 MICRONS.

THIS DRG SUPERSEDS EARLIER SPEC. NO. GF-182 REV.02

TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER / PROJECT

GRAVIMETRIC COAL FEEDER CONTROLS

|  |  |  |  |   |  |   |  |   |  |   |  |  |  |  |  |
|--|--|--|--|---|--|---|--|---|--|---|--|--|--|--|--|
| <div><div>बी एच ई एल</div><div></div></div> |  | <div>Bharat Heavy Electricals Ltd</div> <div>UNIT : HIGH PRESSURE BOILER PLANT</div> <div>TIRUCHIRAPPALLI - 620014</div> |  | <div>DRN</div> <div>S.Kalaiselvi</div>                    |  | <div>SIGNATURE</div> <div></div> |  | <div>DATE</div> <div>11-04-18</div>   |  | <div>NO. OF</div> <div>VAR</div> <div></div> |  |  |  |  |  |
|  |  |  |  | <div>CHD</div> <div>K.Veeramani</div>                     |  | <div></div>                      |  | <div>30-07-18</div>   |  |   |  |  |  |  |  |
|  |  |  |  | <div>APPD</div> <div>T.Kanagaraj</div>                    |  | <div></div>                      |  | <div>30-07-18</div>   |  |   |  |  |  |  |  |
| <div>DEPT. : C &amp; I</div>   |  | <div></div>                           |  | <div>ALL</div> <div>DIMENSIONS</div> <div>ARE IN MM</div> |  | <div>SCALE</div> <div>NTS</div>   |  | <div>WEIGHT (Kg)</div> <div></div> |  | <div>REF TO ASSY / OLD DWG</div> <div></div> |  | <div>ITEM</div> <div>NO</div> <div></div> |  | <div>No OF</div> <div>ITEMS</div> <div></div> |  |
| <div>CODE : 392</div>  |  |  |  |   |  |   |  |   |  |   |  |  |  |  |  |
| <div>TITLE:</div> <div>TECHNICAL SPECIFICATION FOR</div> <div>1 1/2" LOCK NUT</div>  |  |  |  |   |  |   |  | <div>CARD</div> <div>CODE</div> <div>U 01</div>   |  | <div>DRAWING NO :</div> <div>4-95-488-05890</div> <div>Sheet 01 of 01</div>   |  |  |  | <div>REV</div> <div>00</div>   |  |

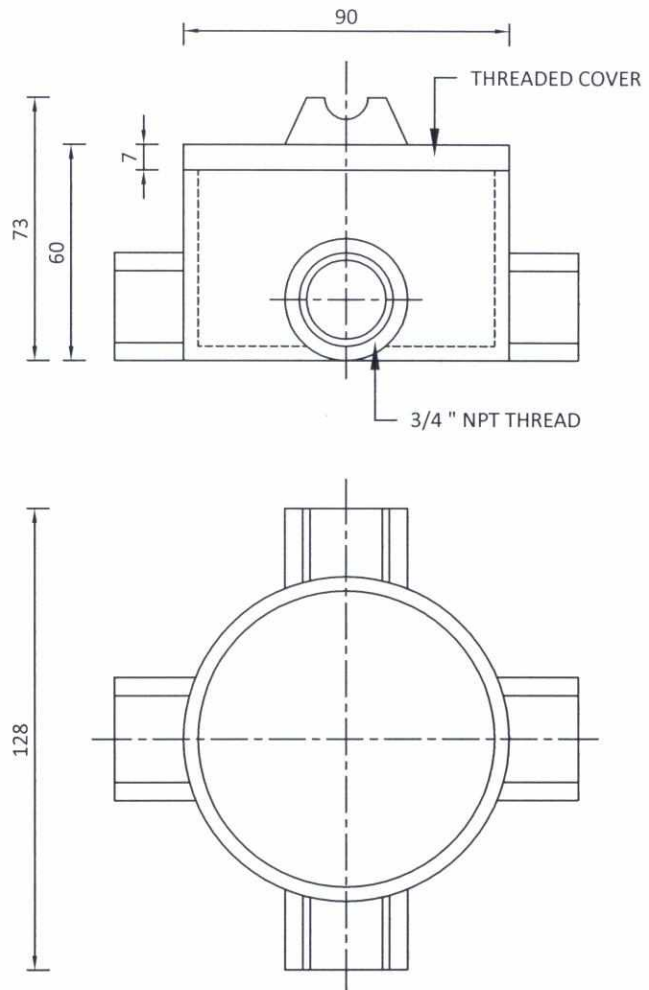


CAUTION :

|     |      |              |
|-----|------|--------------|
| REV | DATE | ALTERED :    |
|     |      | CHD./APPD. : |

| DETAIL                          |
|---------------------------------|
| 1. MATERIAL CODE : 96424170     |
| 2. QUANTITY / FEEDER : 1 No.    |
| 3. LOCATION : CONDUIT ASSEMBLY. |
| 4. MATERIAL : ALUMINIUM         |
| 5. FEEDER SIZE : 36" / 24"      |

| NOTE                                |
|-------------------------------------|
| 1. DIMENSIONAL TOLERANCE $\pm 1$ MM |



THIS DRG SUPERSEDS EARLIER SPEC. NO. GF-183 REV.01

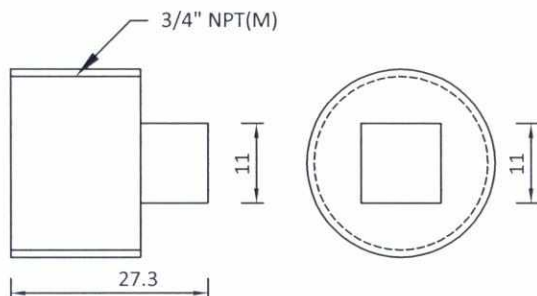
TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER / PROJECT

GRAVIMETRIC COAL FEEDER CONTROLS

|  |  |                                   |  |                                |  |                          |  |  |  |                           |  |                |  |                    |  |
|--|--|-----------------------------------|--|--------------------------------|--|--------------------------|--|--|--|---------------------------|--|----------------|--|--------------------|--|
| <div><div>बी एच ई एल</div><div>BHEL</div></div>                  |  | Bharat Heavy Electricals Ltd      |  | DRN                            |  | NAME<br>S.Kalaiselvi     |  | SIGNATURE<br><i>S.Kalaiselvi</i>                         |  | DATE<br>11-04-18          |  | NO. OF<br>VAR  |  |                    |  |
|  |  | UNIT : HIGH PRESSURE BOILER PLANT |  | CHD                            |  | K.Veeramani              |  | <i>K. Veeramani</i>                                      |  | 30-07-18                  |  | —              |  |                    |  |
|  |  | TIRUCHIRAPPALLI - 620014          |  | APPD                           |  | T.Kanagaraj              |  | <i>T. Kanagaraj</i>                                      |  | 30-07-18                  |  | —              |  |                    |  |
| DEPT. : C & I  |  |                                   |  | ALL<br>DIMENSIONS<br>ARE IN MM |  | SCALE<br>NTS             |  | WEIGHT (Kg)<br>  |  | REF TO ASSY / OLD DWG<br> |  | ITEM<br>NO<br> |  | No OF<br>ITEMS<br> |  |
| CODE : 392   |  |                                   |  |                                |  |                          |  |  |  |                           |  |                |  |                    |  |
| TITLE:<br><br>TECHNICAL SPECIFICATION FOR<br><br>PULL BOX OUTLET |  |                                   |  |                                |  | CARD<br>CODE<br><br>U 01 |  | DRAWING NO :<br><br>4-95-488-05891<br><br>Sheet 01 of 01 |  |                           |  |                |  | REV<br><br>00      |  |

CAUTION :

| REV | DATE | ALTERED :    |
|-----|------|--------------|
|     |      | CHD./APPD. : |











| DETAIL                          |
|---------------------------------|
| 1. MATERIAL CODE : 96424175     |
| 2. QUANTITY / FEEDER : 2 Nos.   |
| 3. LOCATION : CONDUIT ASSEMBLY. |
| 4. MATERIAL : STEEL             |
| 5. FEEDER SIZE : 36" / 24"      |

| NOTE  |
|---|
| 1. PLUG SHALL BE ZINC PLATED TO 12 MICRONS. |
| 2. DIMENSIONAL TOLERANCE +0.5MM.            |

THIS DRG SUPERSEDS EARLIER SPEC. NO. GF-189 REV.01

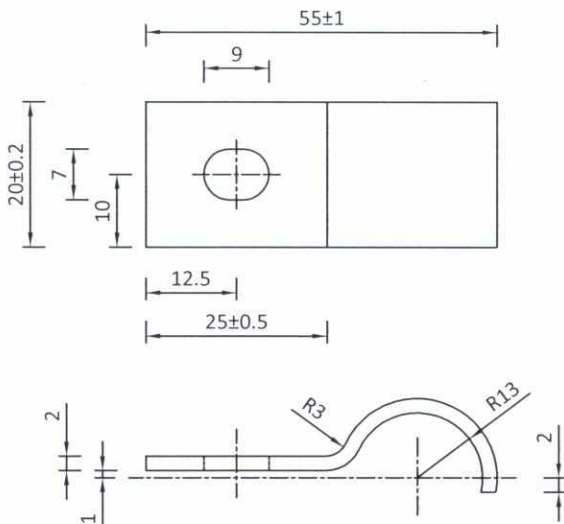
TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER / PROJECT

GRAVIMETRIC COAL FEEDER CONTROLS

|   |  |   |  |                                |  |                      |  |  |  |  |  |   |  |   |  |
|---|--|---|--|--------------------------------|--|----------------------|--|--|--|--|--|---|--|---|--|
| <div><div>बी एच ई एल</div><div>BHEL</div></div> |  | Bharat Heavy Electricals Ltd  |  | DRN                            |  | NAME<br>S.Kalaiselvi |  | SIGNATURE<br> |  | DATE<br>11-04-18   |  | NO. OF<br>VAR   |  |   |  |
|   |  | UNIT : HIGH PRESSURE BOILER PLANT   |  | CHD                            |  | K.Veeramani          |  |               |  | 30-07-18   |  | —   |  |   |  |
|   |  | TIRUCHIRAPPALLI - 620014  |  | APPD                           |  | T.Kanagaraj          |  |               |  | 30-07-18   |  | —   |  |   |  |
| DEPT. : C&I                                     |  |  |  | ALL<br>DIMENSIONS<br>ARE IN MM |  | SCALE<br>NTS         |  | WEIGHT (Kg)<br> |  | REF TO ASSY / OLD DWG<br> |  | ITEM<br>NO<br> |  | No OF<br>ITEMS<br> |  |
| CODE : 392                                      |  |   |  |                                |  |                      |  |  |  |  |  |   |  |   |  |
| TITLE:  |  |   |  |                                |  | CARD<br>CODE<br>U 01 |  | DRAWING NO :<br><br>4-95-488-05892   |  |  |  |   |  | REV<br><br>00   |  |
| TECHNICAL SPECIFICATION FOR<br>3/4" NPT(M) PLUG |  |   |  |                                |  |                      |  |  |  |  |  |   |  | Sheet 01 of 01  |  |

CAUTION :

|     |      |              |
|-----|------|--------------|
| REV | DATE | ALTERED :    |
|     |      | CHD./APPD. : |










| DETAIL                          |
|---------------------------------|
| 1. MATERIAL CODE : 96424144     |
| 2. NO OF FEEDER : 1             |
| 3. LOCATION : CONDUIT ASSEMBLY. |
| 4. MATERIAL : STEEL             |
| 5. FEEDER SIZE : 36" / 24"      |
| 6. M/S STOCK PART NO. FE 561    |

| NOTE  |
|---|
| 1. TOLERANCE : UNTOLERENCED DIMENSIONS TO BE MAINTAINED WITHIN $\pm 0.2$ mm.  |
| 2. SHALL BE FREE FROM CRACKS AND SHARP CORNERS TO BE ROUNDED OFF. TO BE GALVANIZED TO A THICKNESS OF 0.008 TO 0.012 mm. |

THIS DRG SUPERSEDS EARLIER SPEC. NO. GF-155 REV.02

TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER / PROJECT

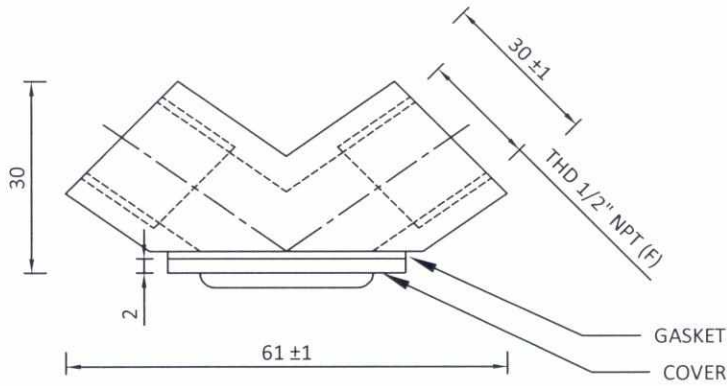
GRAVIMETRIC COAL FEEDER CONTROLS

|   |   |                                   |           |   |   |             |   |   |   |
|---|---|-----------------------------------|-----------|---|---|-------------|---|---|---|
| <div><div>बी एच ई एल</div><div>BHEL</div></div> |   | Bharat Heavy Electricals Ltd      |           | DRN   |   | NAME        | SIGNATURE   | DATE  | NO. OF  |
|   |   | UNIT : HIGH PRESSURE BOILER PLANT |           | CHD   |   | K.Veeramani |  | 30-07-18  | VAR   |
|   |   | TIRUCHIRAPPALLI - 620014          |           | APPD  |   | T.Kanagaraj |  | 30-07-18  |   |
| DEPT. : C & I                                   |  | ALL DIMENSIONS ARE IN MM          | SCALE NTS | WEIGHT (Kg)   | REF TO ASSY / OLD DWG   |             |   | ITEM NO   | No OF ITEMS   |
| CODE : 392                                      |   |                                   |           |  |  |             |   |  |  |
| TITLE:  |   |                                   |           | CARD CODE   | DRAWING NO :  |             |   |   | REV   |
| TECHNICAL SPECIFICATION FOR                     |   |                                   |           | U 01  | 4-95-488-05895  |             |   |   | 00  |
| 3/4" CONDUIT CLAMP                              |   |                                   |           |   | Sheet 01 of 01  |             |   |   |   |

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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY  
IN ANY WAY DETRIMENTAL TO THE INTEREST OF BHEL

CAUTION :

| REV | DATE | ALTERED :    |
|-----|------|--------------|
|     |      | CHD./APPD. : |



#### DETAIL

1. MATERIAL CODE : 96424166
2. QUANTITY / FEEDER : 1 No.
3. LOCATION : CONDUIT ASSEMBLY.
4. MATERIAL : CAST IRON
5. FEEDER SIZE : 36" / 24"

#### NOTE

1. LOCK NUT SHALL BE ZINC PLATED TO 8-12 MICRONS.

THIS DRG SUPERSEDS EARLIER SPEC. NO. GF-164 REV.02

TYPE OF PRODUCT  
OR NAME OF  
CUSTOMER / PROJECT

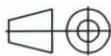
GRAVIMETRIC COAL FEEDER CONTROLS



**Bharat Heavy Electricals Ltd**  
UNIT : HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPPALLI - 620014

| DRN  | NAME        | SIGNATURE           | DATE     | NO. OF<br>VAR |
|------|-------------|---------------------|----------|---------------|
| CHD  | K.Veeramani | <i>K. Veeramani</i> | 30-07-18 | —             |
| APPD | T.Kanagaraj | <i>T. Kanagaraj</i> | 30-07-18 | —             |

DEPT. : C&I



ALL  
DIMENSIONS  
ARE IN MM

SCALE  
NTS

WEIGHT (Kg)  
—

REF TO ASSY / OLD DWG

ITEM  
NO  
—

No OF  
ITEMS  
—

TITLE:

TECHNICAL SPECIFICATION FOR  
90° ELBOW PULLING 1/2" NPT(F)

CARD  
CODE  
U 01

DRAWING NO :

4-95-488-05896

Sheet 01 of 01

REV  
00





Bharat Heavy Electricals Limited  
HIGH PRESSURE BOILER PLANT, TIRUCHIRAPPALLI 620 014.

## TECHNICAL DELIVERY CONDITIONS

FOR SUB – DELIVERY COMPONENTS OF

CONTROLS & INSTRUMENTATION

TDC: TCI: 350 / REV 00




PAGE 01 OF 02

## TECHNICAL SPECIFICATION

FOR

GRAVIMETRIC FEEDER CONTROLS

FLEXIBLE CONDUIT -1/2"

| 00       | 12/04/2018 | Initial Release | <br>[SK] | <br>[KV] | <br>[TK] |
|----------|------------|-----------------|---|--|---|
| Rev. No. | DATE       | DESCRIPTION     | PREPARED  | REVIEWED   | APPROVED  |

**Note:** This spec. supersedes spec. GF-160 / Rev.02

1. Application: For taking power, control and shielded cables in feeder control system.
2. Material code: 964241490000
3. Quantity: 12 Metres / Feeder
4. Material & type of conduit: Galvanized steel (0.008 – 0.012 mm), PVC Extruded and Flexible.
5. Construction: Square – lock construction. Surface to be finished smooth & wrinkle formation to be avoided.
6. Conduit shall be suitable for withstanding a temperature of 70°C.
7. Conduit shall be packed for proper protection against transit damage, Transportation may be by rail or road.
8. Suitable end caps shall be supplied.
9. Conformity certificate for PVC as well as temperature withstanding capability shall be furnished.
10. Test for liquid tightness shall be done as follows and test certificate to be furnished.  
  
“Water shall be splashed all over the conduit from a distance of 1 meter for a period of 15 minutes at a pressure of 5 PSI.”



Bharat Heavy Electricals Limited  
HIGH PRESSURE BOILER PLANT, TIRUCHIRAPPALLI 620 014.

## TECHNICAL DELIVERY CONDITIONS

FOR SUB – DELIVERY COMPONENTS OF

CONTROLS & INSTRUMENTATION

TDC: TCI: 351 / REV 00




PAGE 01 OF 02

## TECHNICAL SPECIFICATION

FOR

GRAVIMETRIC FEEDER CONTROLS

FLEXIBLE CONDUIT -1 ½"

| 00       | 12/04/2018 | Initial Release | <br>[SK] | <br>[KV] | <br>[TK] |
|----------|------------|-----------------|---|--|---|
| Rev. No. | DATE       | DESCRIPTION     | PREPARED  | REVIEWED   | APPROVED  |

**Note:** This spec. supersedes spec. GF-178 / Rev.02

1. Application : For taking power, control and shielded cables in feeder control system.
2. Material code : 964241520000
3. Quantity : 1 Metre / Feeder
- r4. Material & type of conduit : Galvanized steel (0.008 – 0.012 mm), PVC Extruded and Flexible.
5. Construction: Square – lock construction. Surface to be finished smooth & wrinkle formation to be avoided.
6. Conduit shall be suitable for withstanding a temperature of 70°C.
7. Conduit shall be packed for proper protection against transit damage, Transportation may be by rail or road.
8. Suitable end caps shall be supplied.
9. Conformity certificate for PVC as well as temperature withstanding capability shall be furnished.
10. Test for liquid tightness shall be done as follows and test certificate to be furnished.

“Water shall be splashed all over the conduit from a distance of 1 meter for a period of 15 minutes at a pressure of 5 PSI.”





Bharat Heavy Electricals Limited  
HIGH PRESSURE BOILER PLANT, TIRUCHIRAPPALLI 620 014.

## TECHNICAL DELIVERY CONDITIONS

FOR SUB – DELIVERY COMPONENTS OF

CONTROLS & INSTRUMENTATION

TDC: TCI: 352 / REV 00




PAGE 01 OF 02

## TECHNICAL SPECIFICATION

FOR

GRAVIMETRIC FEEDER CONTROLS

FLEXIBLE CONDUIT -3/4"

| 00       | 12/04/2018 | Initial Release | <br>[SK] | <br>[KV] | <br>[TK] |
|----------|------------|-----------------|---|--|---|
| Rev. No. | DATE       | DESCRIPTION     | PREPARED  | REVIEWED   | APPROVED  |

Note: This spec. supersedes spec. GF-168 / Rev.02

1. Application: For taking power, control and shielded cables in feeder control system.
2. Material code: 964241500000
3. Quantity: 4 Metres / Feeder
4. Material & type of conduit: Galvanized steel (0.008 – 0.012 mm), PVC Extruded and Flexible.
5. Construction: Square – lock construction. Surface to be finished smooth & wrinkle formation to be avoided.
6. Conduit shall be suitable for withstanding a temperature of 70°C.
7. Conduit shall be packed for proper protection against transit damage, Transportation may be by rail or road.
8. Suitable end caps shall be supplied.
9. Conformity certificate for PVC as well as temperature withstanding capability shall be furnished.
10. Test for liquid tightness shall be done as follows and test certificate to be furnished.  
“Water shall be splashed all over the conduit from a distance of 1 meter for a period of 15 minutes at a pressure of 5 PSI.”