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FIRST ANGLE PROJECTION (ALL DIMENSIONS IN MILLIMETRES)

00091-559-08-2  
DRAWING NO. 2-80-655-16000

NOTES: ALL DIMENSIONS ARE IN MILLIMETRES

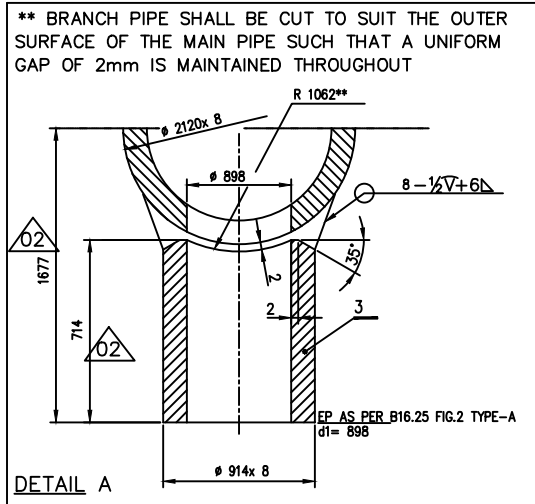
- DESIGN PRESSURE - 0.2 KG/CM<sup>2</sup> (G) DESIGN TEMPERATURE: 290°C
- FOR STANDARD NOTES OF PRODUCTION AND ERECTION OF PIPES AND TOLERANCE ON FITTINGS REFER DRG NO. 4-80-001-37654 & 4-80-301-26192
- FOLLOW APPLICABLE QP AND PAINTING SCHEDULE FOR THE PROJECT
- ALL UNMARKED BENDS/ELBOWS ARE 90 DEG
- PIPE ENDS SHALL BE BEVELLED AS PER B16.25 FIG.2 TYPE-A
- GASKET IS SUPPLIED VIDE 7419-80-733 PGMA.
- FOR ELECTRODE DATA REFER

| PIPE SIZE | MATERIAL SPEC   | EP FIG   | WELD SPEC | ELECTRODE DATA      |                     |
|-----------|-----------------|----------|-----------|---------------------|---------------------|
|           |                 |          |           | ROOT RUN            | FILLER RUN          |
| OD2120x8  | ASTM A516 GR.70 | FIGURE-A | 8 V       | ER70S-2/E6010/E6013 | ER70S-2/E7016/E7018 |
| OD1120x8  | ASTM A516 GR.70 | FIGURE-A | 8 V       | ER70S-2/E6010/E6013 | ER70S-2/E7016/E7018 |
| OD914x8   | ASTM A516 GR.70 | FIGURE-A | 8 V       | ER70S-2/E6010/E6013 | ER70S-2/E7016/E7018 |

- THREADS SHALL BE UNIFIED (UNC FOR UP TO 1" DIA) AS PER ASME B1.1 WITH CLASS 2A FIT FOR STUDS AND CLASS 2B FIT FOR NUTS.

- 01 INDICATES WELD AT SHOP.  
01 INDICATES WELD AT SITE.

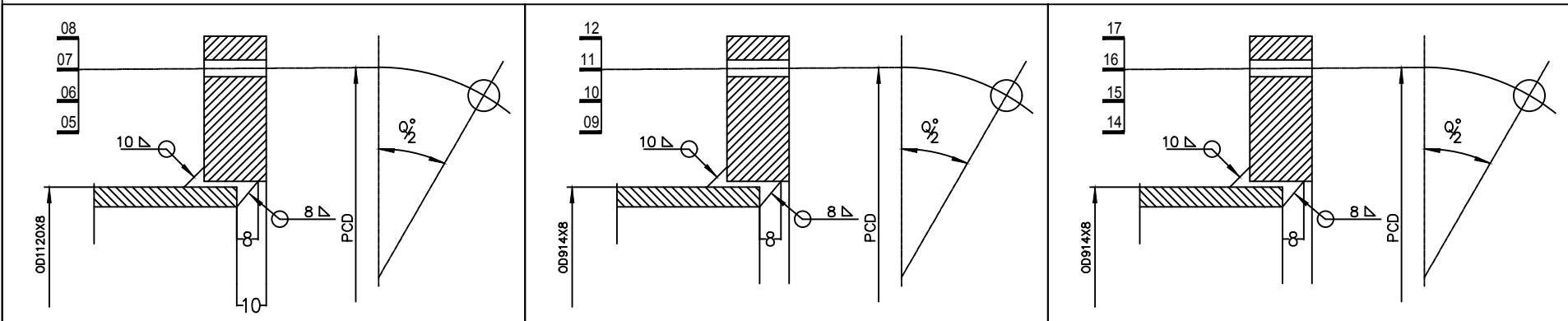
|                   |          |                                    |                |                     |                |                |
|-------------------|----------|------------------------------------|----------------|---------------------|----------------|----------------|
| ---               | 17       | GASKET B16.2 SPIRAL WOUND          | 2-80-655-16000 | -----               | C              | 0,300<br>01    |
| ---               | 16       | NUT 3/4" UNC                       | 2-80-655-16000 | -----               | C              | 0,065<br>136   |
| ---               | 15       | STUD 3/4" UNC L=131                | 2-80-655-16000 | -----               | C              | 0,336<br>68    |
| ---               | 14       | FLANGE.SO CL.150 FF/125AARH 84"    | 2-80-655-16008 | 19 ASTM A 516 GR.70 | C              | 93,451<br>01   |
| FBFK521Z054ZZZZZ  | 13       | BLIND FLANGE CL.150 FF/125AARH 84" | 2-80-655-16009 | 19 ASTM A 516 GR.70 | C              | 268,047<br>01  |
| GKFDSC2Z030ZZZZZ  | 12       | GASKET B16.2 SPIRAL WOUND          | 2-80-655-16000 | -----               | C              | 0,300<br>10    |
| ---               | 11       | NUT 5/8" UNC                       | 2-80-655-16000 | -----               | C              | 0,033<br>560   |
| ---               | 10       | STUD 5/8" UNC L=113                | 2-80-655-16000 | -----               | C              | 0,224<br>280   |
| FNFK521Z030ZZZZZ  | 09       | FLANGE.SO CL.150 FF/125AARH 36"    | 2-80-655-16008 | 07 ASTM A 516 GR.70 | C              | 48,340<br>10   |
| GKFDSC2Z034ZZZZZ  | 08       | GASKET B16.2 SPIRAL WOUND          | 2-80-655-16000 | -----               | C              | 0,300<br>05    |
| ---               | 07       | NUT 5/8" UNC                       | 2-80-655-16000 | -----               | C              | 0,033<br>360   |
| ---               | 06       | STUD 5/8" UNC L=113                | 2-80-655-16000 | -----               | C              | 0,224<br>180   |
| FNFK521Z034ZZZZZ  | 05       | FLANGE.SO CL.150 FF/125AARH 44"    | 2-80-655-16008 | 09 ASTM A 516 GR.70 | C              | 41,752<br>05   |
| WUMBZ4ZZ034633063 | 04       | P.F REDUCER OD1120X8/OD914X8       | 4-80-655-83162 | -----               | C              | 105,904<br>05  |
| PI8Y713Z03063ZZZZ | 03       | P.F PIPE OD914X8 L=714             | 3-80-655-35538 | 06 ASTM A 516 GR.70 | C              | 127,617<br>05  |
| PI8Y713Z05463ZZZZ | 02       | P.F PIPE OD2120X8 L=2180           | 3-80-655-35560 | 03 ASTM A 516 GR.70 | C              | 500,014<br>01  |
| PI8Y713Z05463ZZZZ | 01       | P.F PIPE OD2120X8 L=7845           | 3-80-655-35560 | 02 ASTM A 516 GR.70 | C              | 3675,099<br>01 |
| ITEM CODE         | ITEM NO. | DESCRIPTION                        | DRAWING NO.    | ITEM NO. VAR        | MATERIAL CODE  | UNIT WT.       |
|                   |          |                                    |                |                     | MATERIAL SPEC. | QTY.           |



DETAIL 1

DETAIL 2

DETAIL 3



|        |                                   |                    |
|--------|-----------------------------------|--------------------|
| REV 02 | DATE 04.06.19                     | ALTERED PAVANKUMAR |
| ZONE   | DRAWING REVISED AS PER LATEST EIL | APPROVED SESHAGIRI |

REVISION MARKED AS 02

|        |                                                  |                  |
|--------|--------------------------------------------------|------------------|
| REV 01 | DATE 29.04.19                                    | ALTERED M.P.K    |
| ZONE   | DRAWING REVISED AS PER MAIL FROM EIL DT:24.04.19 | APPROVED TRINADH |

REVISION MARKED AS 01

|                                                               |                            |                        |                            |
|---------------------------------------------------------------|----------------------------|------------------------|----------------------------|
| CUSTOMER INDIAN OIL CORPORATION LIMITED (HALDIA)              |                            | BH&L CUSTOMER NO: 7419 |                            |
| CONSULTANT ENGINEERS INDIA LIMITED (EIL) NEW DELHI            |                            |                        |                            |
| NAME OF PROJECT BS-VI, HALDIA                                 |                            |                        |                            |
|                                                               |                            | DRN PAVANKUMAR         | SIGN -sd-                  |
| BHARAT HEAVY ELECTRICALS LTD., PIPING CENTRE, CHENNAI 600 017 |                            | CHD SESHAGIRI          | SIGN -sd-                  |
|                                                               |                            | APPD C.SARAVANAN       | SIGN -sd-                  |
| DEPT. CODE                                                    | GRADE OF UN TOL. DIM C/M/F | SCALE                  | WEIGHT (Kg).               |
| TITLE EIL DRAWING NO: 84-AH-205-2301-K22A-IH-E SH 3 of 3      |                            | CARD CODE U 01         | DRAWING No. 2-80-655-16000 |
|                                                               |                            | REF TO ASSY / OLD DRG  | ITEM No. 02                |