



NOTES:

1. SEE LEGEND AND SYMBOLS DRAWINGS.

2.

| ITEM NO. | TYPE | THICKNESS (MM) |
|-------------|------|-------------------------|
| 15E001A/B | HOT | SHELL: 100 TUBE: 100 |
| 15E002A/B/C | HOT | SHELL: 100 TUBE: 100 |

3. INSTRUMENT NUMBERING ON P&ID SHEETS ARE COMPOSED OF IDENTIFICATION LETTERS, PLANT UNIT NUMBER AND RUNNING NUMBER.

4. TW AND PP FOR EXCHANGER SHALL BE INSTALLED ACCORDING TO TEMA CLASS.

| ITEM NO. | TW TAG. NO. |
|-------------|-------------|
| 15E001A/B | TW-1501 A-F |
| 15E002A/B/C | TW-1502 A-H |

5. CHANGE ORIFICE PLATE.

6. SEE DETAIL "A" FOR CHEMICAL INJECTION.

7. TIE-IN POINT FOR HOT GAS OIL FEED FROM ADU 2.

8. GLOBE VALVE AND CHECK VALVE SHOULD BE AT MINIMUM DISTANCE FROM TIE-IN POINT AND LOCATED IN HORIZONTAL.

9. MULTIPLE ORIFICE DEVICE DESIGN DETAIL WILL BE WORKED OUT BY VENDER.

10. INSTALL INSULATION AT CHANNEL COVER HEAT EXCHANGERS.

11. SAMPLE CONNECTION FOR SULPHUR CONTENT.

| REV. | DATE | DESCRIPTION OF ISSUE | DRWN | CHKD | APPD | APPD | APPD |
|------|----------|-----------------------------------------------------|------|------|------|------|------|
| 19 | 06-17-20 | UPDATE 2020 | NR | JDP | | | |
| 18 | 02-12-18 | UPDATE 2018 | NR | ANS | | | |
| 17 | 03-15-17 | UPDATE 2017 | NR | ANS | | | |
| 16 | 10-27-16 | PINCH ANALYSIS | NR | ANS | | | |
| 15 | 04-26-16 | UPDATE 2016 | NR | ANS | | | |
| 14 | 10-27-14 | UPDATE 2014 | NR | ANS | | | |
| 13 | 06-06-14 | INSTALL INSULATION AT CHANNEL COVER HEAT EXCHANGERS | NR | ANS | | | |
| 12 | 03-19-14 | TREAT GAS TO FEED INJECTION | NR | ANS | | | |
| 11 | 03-06-12 | UPDATE 2012 | NR | ANS | | | |
| 10 | 09-09-11 | TIE-IN B/V FOR HOT GAS OIL FEED FROM ADU2 | NR | ANS | | | |
| 9 | 09-09-11 | MODIFY CHEMICAL INJECTION POINT | NR | ANS | | | |
| 8 | 11-12-10 | INSTALL PDI AND TEMPERATURE ELEMENT AT 15E002A/B/C | NR | HKR | | | |
| 7 | 03-14-08 | UPDATE 2008 | JRW | TH | | | |
| 6 | 07-30-04 | INSTALL PRESSURE DIFFERENT TRANSMITTER | NR | SK | | | |
| 5 | 01-30-02 | ADD 15E002C | NR | SS | | | |
| 4 | 06-21-00 | MODIFY FOR 120% | TEE | | | | |
| 3 | 01-22-99 | ADDED 15E002 A/B BY PASS LINE | | | | | |
| 2 | 08-12-95 | F.F.C. | YSJ | JHS | BKJ | JUL | |
| 1 | 03-31-95 | A.F.D. | YSJ | JHS | KK | YSH | GHA |
| 0 | 02-08-95 | FOR APPROVAL | TCM | HBS | LEE | | |

IRPC

IRPC PUBLIC COMPANY LIMITED

TPI SPLITTER PLANT PHASE III PROJECT
RAYONG, THAILANDLG Engineering Co., Ltd.
SEOUL, KOREATETRA ENGINEERING & TECHNOLOGY INC.
BREA, CALIFORNIA, U.S.A.

PROJECT NO.

PROJECT TITLE

D/K HDS UNIT PIPING & INSTRUMENT DIAGRAM
FEED EXCHANGERS

| JOB NUMBER | DRAWING NUMBER | REV. NO. |
|------------|--------------------|----------|
| 8816 | 69-P-1-15-001-3-19 | 19 |