



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک  
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



MTO FOR FITTINGS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

PI

نوع مدرک

MT

سریال

0002

نسخه

D02

شماره صفحه: ۱ از ۱۴

## طرح نگهداشت و افزایش تولید ۲۷ مخزن

### MTO FOR FITTINGS

نگهداشت و افزایش تولید میدان نفتی بینک

|      |          |                           |              |             |              |                 |
|------|----------|---------------------------|--------------|-------------|--------------|-----------------|
|      |          |                           |              |             |              |                 |
|      |          |                           |              |             |              |                 |
|      |          |                           |              |             |              |                 |
| D02  | JUL.2024 | FI                        | M.Noori      | M.Fakharian | M.Sadeghian  |                 |
| D01  | JUN.2023 | FI                        | M.Noori      | M.Fakharian | A.M.Mohseni  |                 |
| D00  | OCT.2022 | IFI                       | M.Noori      | M.Fakharian | M.Mehrshad   |                 |
| Rev. | Date     | Purpose of Issue / Status | Prepared by: | Checked by: | Approved by: | CLIENT Approval |

Class: 3

CLIENT Doc. Number: F8Z-708912

status:

IDC: Inter-Discipline Check

IFC: Issued For Comment

IFA: Issued For Approval

AFD: Approved For Design

AFC: Approved For Construction

AFP: Approved For Purchase

AFQ: Approved For Quotation

IFI: Issued For Information

AB-R: As-Built for CLIENT Review

AB-A: As-Built -Approved

|                                                                                                  |                                                                                                                                                                  |                  |                     |                |            |                |                                                                                                                                                                        |             |                     |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|----------------|------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------|
| <br><b>NISOC</b> | <p align="center">نگهداشت و افزایش تولید میدان نفتی بینک</p> <p align="center">سطح الارض</p> <p align="center">احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p> |                  |                     |                |            |                |   |             |                     |
|                                                                                                  | MTO FOR FITTINGS                                                                                                                                                 |                  |                     |                |            |                |                                                                                                                                                                        |             |                     |
| شماره پیمان:<br>۰۵۳ - ۰۷۳ - ۹۱۸۴                                                                 | پروژه<br>BK                                                                                                                                                      | بسته کاری<br>GCS | صادر کننده<br>PEDCO | تسهیلات<br>120 | رشته<br>PI | نوع مدرک<br>MT | سریال<br>0002                                                                                                                                                          | نسخه<br>D02 | شماره صفحه: ۱۴ از ۲ |

### REVISION RECORD SHEET

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|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
| 1    | X   | X   | X   |     |     | 65   |     |     |     |     |     |
| 2    | X   | X   | X   |     |     | 66   |     |     |     |     |     |
| 3    | X   | X   | X   |     |     | 67   |     |     |     |     |     |
| 4    | X   | X   | X   |     |     | 68   |     |     |     |     |     |
| 5    | X   | X   | X   |     |     | 69   |     |     |     |     |     |
| 6    | X   | X   | X   |     |     | 70   |     |     |     |     |     |
| 7    | X   | X   | X   |     |     | 71   |     |     |     |     |     |
| 8    | X   | X   | X   |     |     | 72   |     |     |     |     |     |
| 9    | X   | X   | X   |     |     | 73   |     |     |     |     |     |
| 10   | X   | X   | X   |     |     | 74   |     |     |     |     |     |
| 11   | X   | X   | X   |     |     | 75   |     |     |     |     |     |
| 12   | X   | X   | X   |     |     | 76   |     |     |     |     |     |
| 13   |     |     | X   |     |     | 77   |     |     |     |     |     |
| 14   |     |     | X   |     |     | 78   |     |     |     |     |     |
| 15   |     |     |     |     |     | 79   |     |     |     |     |     |
| 16   |     |     |     |     |     | 80   |     |     |     |     |     |
| 17   |     |     |     |     |     | 81   |     |     |     |     |     |
| 18   |     |     |     |     |     | 82   |     |     |     |     |     |
| 19   |     |     |     |     |     | 83   |     |     |     |     |     |
| 20   |     |     |     |     |     | 84   |     |     |     |     |     |
| 21   |     |     |     |     |     | 85   |     |     |     |     |     |
| 22   |     |     |     |     |     | 86   |     |     |     |     |     |
| 23   |     |     |     |     |     | 87   |     |     |     |     |     |
| 24   |     |     |     |     |     | 88   |     |     |     |     |     |
| 25   |     |     |     |     |     | 89   |     |     |     |     |     |
| 26   |     |     |     |     |     | 90   |     |     |     |     |     |
| 27   |     |     |     |     |     | 91   |     |     |     |     |     |
| 28   |     |     |     |     |     | 92   |     |     |     |     |     |
| 29   |     |     |     |     |     | 93   |     |     |     |     |     |
| 30   |     |     |     |     |     | 94   |     |     |     |     |     |
| 31   |     |     |     |     |     | 95   |     |     |     |     |     |
| 32   |     |     |     |     |     | 96   |     |     |     |     |     |
| 33   |     |     |     |     |     | 97   |     |     |     |     |     |
| 34   |     |     |     |     |     | 98   |     |     |     |     |     |
| 35   |     |     |     |     |     | 99   |     |     |     |     |     |
| 36   |     |     |     |     |     | 100  |     |     |     |     |     |
| 37   |     |     |     |     |     | 101  |     |     |     |     |     |
| 38   |     |     |     |     |     | 102  |     |     |     |     |     |
| 39   |     |     |     |     |     | 103  |     |     |     |     |     |
| 40   |     |     |     |     |     | 104  |     |     |     |     |     |
| 41   |     |     |     |     |     | 105  |     |     |     |     |     |
| 42   |     |     |     |     |     | 106  |     |     |     |     |     |
| 43   |     |     |     |     |     | 107  |     |     |     |     |     |
| 44   |     |     |     |     |     | 108  |     |     |     |     |     |
| 45   |     |     |     |     |     | 109  |     |     |     |     |     |
| 46   |     |     |     |     |     | 110  |     |     |     |     |     |
| 47   |     |     |     |     |     | 111  |     |     |     |     |     |
| 48   |     |     |     |     |     | 112  |     |     |     |     |     |
| 49   |     |     |     |     |     | 113  |     |     |     |     |     |
| 50   |     |     |     |     |     | 114  |     |     |     |     |     |
| 51   |     |     |     |     |     | 115  |     |     |     |     |     |
| 52   |     |     |     |     |     | 116  |     |     |     |     |     |
| 53   |     |     |     |     |     | 117  |     |     |     |     |     |
| 54   |     |     |     |     |     | 118  |     |     |     |     |     |
| 55   |     |     |     |     |     | 119  |     |     |     |     |     |
| 56   |     |     |     |     |     | 120  |     |     |     |     |     |
| 57   |     |     |     |     |     | 121  |     |     |     |     |     |
| 58   |     |     |     |     |     | 122  |     |     |     |     |     |
| 59   |     |     |     |     |     | 123  |     |     |     |     |     |
| 60   |     |     |     |     |     | 124  |     |     |     |     |     |
| 61   |     |     |     |     |     | 125  |     |     |     |     |     |
| 62   |     |     |     |     |     | 126  |     |     |     |     |     |
| 63   |     |     |     |     |     | 127  |     |     |     |     |     |
| 64   |     |     |     |     |     | 128  |     |     |     |     |     |



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120

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سریال

0002

نسخه

D02

شماره صفحه: 3 از 14

D02

Totally revised

## MTO FOR FITTINGS

| Item | Description                                    | Material                  | Size (mm) | Req. Qty. | Total Req. Qty.- Rounded | Remarks |
|------|------------------------------------------------|---------------------------|-----------|-----------|--------------------------|---------|
| 1    | ELBOW 45D PE 100 PN 20 PBE LR ISO 4427 MFR.STD | HDPE PE100                | 160X160   | 6         | 6                        |         |
| 2    | ELBOW 45D PE 100 PN 20 PBE LR ISO 4427 MFR.STD | HDPE PE100                | 250X250   | 22        | 22                       |         |
| 3    | ELBOW 45D PE 100 PN 20 PBE LR ISO 4427 MFR.STD | HDPE PE100                | 63X63     | 30        | 30                       |         |
| 4    | ELBOW 90D PE 100 PN 20 PBE LR ISO 4427 MFR.STD | HDPE PE100                | 250X250   | 12        | 12                       |         |
| 5    | ELBOW 90D PE 100 PN 20 PBE LR ISO 4427 MFR.STD | HDPE PE100                | 63X63     | 9         | 9                        |         |
| 6    | CAP BW SMLS SCH.10S ASME B16.9                 | ASTM A403 GR.WP316L       | 150X150   | 6         | 6                        |         |
| 7    | CAP BW SMLS SCH.40 ASME B16.9                  | ASTM A234 WPB             | 100X15    | 2         | 2                        |         |
| 8    | CAP BW SMLS SCH.40 ASME B16.9                  | ASTM A234 WPB             | 50X15     | 15        | 15                       |         |
| 9    | CAP BW SMLS SCH.40 ASME B16.9                  | ASTM A234 WPB             | 80X15     | 2         | 2                        |         |
| 10   | CAP BW SMLS SCH.40 ASME B16.9                  | ASTM A234 WPB NACE MR0175 | 250X15    | 1         | 1                        |         |
| 11   | CAP BW SMLS SCH.40 ASME B16.9                  | ASTM A234 WPB NACE MR0175 | 80X80     | 9         | 9                        |         |
| 12   | CAP BW SMLS SCH.40 ASME B16.9                  | ASTM A234 GR.WPB NACE     | 150X150   | 6         | 6                        |         |
| 13   | CAP BW SMLS SCH.40S ASME B16.9                 | ASTM A403 GR.WP316L       | 150X150   | 6         | 6                        |         |
| 14   | CAP BW SMLS SCH.80 ASME B16.9                  | ASTM A234 GR.WPB NACE     | 150X150   | 6         | 6                        |         |
| 15   | CAP BW SMLS SCH.80 ASME B16.9                  | ASTM A234 WPB NACE MR0175 | 80X15     | 13        | 13                       |         |
| 16   | CAP BW SMLS SCH.80 ASME B16.9                  | ASTM A234 WPB NACE MR0175 | 80X80     | 2         | 2                        |         |
| 17   | CAP THRD SMLS 3000# ASME B16.11                | ASTM A105                 | 20X20     | 13        | 13                       |         |
| 18   | CAP THRD SMLS 3000# ASME B16.11                | ASTM A105                 | 25X25     | 31        | 31                       |         |
| 19   | CAP THRD SMLS 3000# ASME B16.11                | ASTM A105                 | 40X40     | 1         | 1                        |         |
| 20   | CAP THRD SMLS 3000# ASME B16.11                | ASTM A105 GALVD           | 20X20     | 2         | 2                        |         |
| 21   | CAP THRD SMLS 3000# ASME B16.11                | ASTM A105 GALVD           | 25X25     | 4         | 4                        |         |
| 22   | CAP THRD SMLS 3000# ASME B16.11                | ASTM A105 GALVD           | 50X50     | 20        | 20                       |         |
| 23   | CAP THRD SMLS 3000# ASME B16.11                | ASTM A105 NACE MR0175     | 20X20     | 23        | 23                       |         |
| 24   | CAP THRD SMLS 3000# ASME B16.11                | ASTM A105 NACE MR0175     | 25X25     | 3         | 3                        |         |
| 25   | CAP THRD SMLS 3000# ASME B16.11                | ASTM A182 F316L           | 20X20     | 14        | 14                       |         |
| 26   | CAP THRD SMLS 3000# ASME B16.11                | ASTM A182 F316L NACE      | 20X20     | 6         | 6                        |         |
| 27   | CAP THRD SMLS 3000# ASME B16.11                | ASTM A182 F316L NACE      | 40X40     | 1         | 1                        |         |



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تسهیلات

120

رشته

PI

نوع مدرک

MT

سریال

0002

نسخه

D02

شماره صفحه: 4 از 14

D02

Totally revised

## MTO FOR FITTINGS

| Item | Description                               | Material                  | Size (mm) | Req. Qty. | Total Req. Qty.- Rounded | Remarks |
|------|-------------------------------------------|---------------------------|-----------|-----------|--------------------------|---------|
| 28   | CAP THRD SMLS 3000# ASME B16.11           | ASTM A105                 | 40X40     | 1         | 1                        |         |
| 29   | CAP THRD SMLS 3000# ASME B16.11           | ASTM A182 F316L NACE      | 20X20     | 6         | 6                        |         |
| 30   | CAP THRD SMLS 6000# ASME B16.11           | ASTM A105 NACE MR0175     | 20X20     | 61        | 61                       |         |
| 31   | CAP THRD SMLS 6000# ASME B16.11           | ASTM A105 NACE MR0175     | 25X25     | 1         | 1                        |         |
| 32   | FULL COUPLING SW SMLS 6000# ASME B16.11   | ASTM A105 NACE MR0175     | 40X40     | 1         | 1                        |         |
| 33   | FULL COUPLING THRD SMLS 3000# ASME B16.11 | ASTM A105 GALVD           | 50X50     | 51        | 51                       |         |
| 34   | ELBOW 45D BW SMLS LR SCH.10S ASME B16.9   | ASTM A403 WP316L NACE     | 50X50     | 4         | 4                        |         |
| 35   | ELBOW 45D BW SMLS LR SCH.160 ASME B16.9   | ASTM A234 GR.WPB NACE     | 50X50     | 6         | 6                        |         |
| 36   | ELBOW 45D BW SMLS LR SCH.160 ASME B16.9   | ASTM A234 WPB NACE MR0175 | 50X50     | 15        | 15                       |         |
| 37   | ELBOW 45D BW SMLS LR SCH.40 ASME B16.9    | ASTM A234 WPB             | 50X50     | 4         | 4                        |         |
| 38   | ELBOW 45D BW SMLS LR SCH.40 ASME B16.9    | ASTM A234 WPB             | 80X80     | 2         | 2                        |         |
| 39   | ELBOW 45D BW SMLS LR SCH.40 ASME B16.9    | ASTM A234 WPB NACE MR0175 | 250X250   | 2         | 2                        |         |
| 40   | ELBOW 45D BW SMLS LR SCH.40S ASME B16.9   | ASTM A403 WP316L NACE     | 150X150   | 4         | 4                        |         |
| 41   | ELBOW 45D BW SMLS LR SCH.60 ASME B16.9    | ASTM A234 WPB NACE MR0175 | 200X200   | 7         | 7                        |         |
| 42   | ELBOW 45D BW SMLS LR SCH.80 ASME B16.9    | ASTM A234 GR.WPB NACE     | 50X50     | 4         | 4                        |         |
| 43   | ELBOW 45D BW SMLS LR SCH.80 ASME B16.9    | ASTM A234 WPB             | 50X50     | 5         | 5                        |         |
| 44   | ELBOW 45D BW SMLS LR SCH.80 ASME B16.9    | ASTM A234 WPB NACE MR0175 | 100X100   | 8         | 8                        |         |
| 45   | ELBOW 45D BW SMLS LR SCH.80 ASME B16.9    | ASTM A234 WPB NACE MR0175 | 150X150   | 13        | 13                       |         |
| 46   | ELBOW 45D BW SMLS LR SCH.80 ASME B16.9    | ASTM A234 WPB NACE MR0175 | 80X80     | 4         | 4                        |         |
| 47   | ELBOW 90 BW SMLS LR SCH.80 ASME B16.9     | ASTM A234 GR.WPB NACE     | 150X150   | 9         | 9                        |         |
| 48   | ELBOW 90 SW SMLS LR 3000# ASME B16.11     | ASTM A105                 | 40X40     | 18        | 18                       |         |
| 49   | ELBOW 90 SW SMLS LR 3000# ASME B16.11     | ASTM A182 F316L           | 40X40     | 5         | 5                        |         |
| 50   | ELBOW 90 SW SMLS LR 9000# ASME B16.11     | ASTM A105 NACE MR 0175    | 25X25     | 1         | 1                        |         |
| 51   | ELBOW 90D BW SMLS LR SCH.100 ASME B16.9   | ASTM A234 WPB NACE MR0175 | 200X200   | 2         | 2                        |         |
| 52   | ELBOW 90D BW SMLS LR SCH.10S ASME B16.9   | ASTM A403 WP316L NACE     | 100X100   | 6         | 6                        |         |
| 53   | ELBOW 90D BW SMLS LR SCH.10S ASME B16.9   | ASTM A403 WP316L NACE     | 150X150   | 39        | 39                       |         |
| 54   | ELBOW 90D BW SMLS LR SCH.10S ASME B16.9   | ASTM A403 WP316L NACE     | 50X50     | 24        | 24                       |         |



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120

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MT

سریال

0002

نسخه

D02

شماره صفحه: 5 از 14

D02

Totally revised

## MTO FOR FITTINGS

| Item | Description                                 | Material                     | Size (mm) | Req. Qty. | Total Req. Qty.- Rounded | Remarks |
|------|---------------------------------------------|------------------------------|-----------|-----------|--------------------------|---------|
| 55   | ELBOW 90D BW SMLS LR SCH.120 ASME B16.9     | ASTM A234 WPB<br>NACE MR0175 | 150X150   | 2         | 2                        |         |
| 56   | ELBOW 90D BW SMLS LR SCH.160 ASME B16.9     | ASTM A234 WPB<br>NACE MR0175 | 50X50     | 277       | 277                      |         |
| 57   | ELBOW 90D BW SMLS LR SCH.20 ASME B16.9      | ASTM A234 WPB                | 250X250   | 28        | 28                       |         |
| 58   | ELBOW 90D BW SMLS LR SCH.20 ASME B16.9      | ASTM A234 WPB                | 300X300   | 18        | 18                       |         |
| 59   | ELBOW 90D BW SMLS LR SCH.40 ASME B16.9      | ASTM A234 WPB                | 100X100   | 17        | 17                       |         |
| 60   | ELBOW 90D BW SMLS LR SCH.40 ASME B16.9      | ASTM A234 WPB                | 150X150   | 6         | 6                        |         |
| 61   | ELBOW 90D BW SMLS LR SCH.40 ASME B16.9      | ASTM A234 WPB                | 50X50     | 110       | 110                      |         |
| 62   | ELBOW 90D BW SMLS LR SCH.40 ASME B16.9      | ASTM A234 WPB                | 80X80     | 18        | 18                       |         |
| 63   | ELBOW 90D BW SMLS LR SCH.40 ASME B16.9      | ASTM A234 WPB<br>NACE MR0175 | 150X150   | 66        | 66                       |         |
| 64   | ELBOW 90D BW SMLS LR SCH.40 ASME B16.9      | ASTM A234 WPB<br>NACE MR0175 | 200X200   | 21        | 21                       |         |
| 65   | ELBOW 90D BW SMLS LR SCH.40 ASME B16.9      | ASTM A234 WPB<br>NACE MR0175 | 250X250   | 33        | 33                       |         |
| 66   | ELBOW 90D BW SMLS LR SCH.40 ASME B16.9      | ASTM A234 WPB<br>NACE MR0175 | 300X300   | 46        | 46                       |         |
| 67   | ELBOW 90D BW SMLS LR SCH.40 ASME B16.9      | ASTM A234 WPB<br>NACE MR0175 | 80X80     | 16        | 16                       |         |
| 68   | ELBOW 90D BW SMLS LR SCH.40S ASME B16.9     | ASTM A403<br>WP316L NACE     | 100X100   | 15        | 15                       |         |
| 69   | ELBOW 90D BW SMLS LR SCH.40S ASME B16.9     | ASTM A403<br>WP316L NACE     | 150X150   | 19        | 19                       |         |
| 70   | ELBOW 90D BW SMLS LR SCH.40S ASME B16.9     | ASTM A403<br>WP316L NACE     | 50X50     | 17        | 17                       |         |
| 71   | ELBOW 90D BW SMLS LR SCH.60 ASME B16.9      | ASTM A234 WPB<br>NACE MR0175 | 200X200   | 24        | 24                       |         |
| 72   | ELBOW 90D BW SMLS LR SCH.80 ASME B16.9      | ASTM A234 WPB                | 50X50     | 81        | 81                       |         |
| 73   | ELBOW 90D BW SMLS LR SCH.80 ASME B16.9      | ASTM A234 WPB<br>NACE MR0175 | 100X100   | 55        | 55                       |         |
| 74   | ELBOW 90D BW SMLS LR SCH.80 ASME B16.9      | ASTM A234 WPB<br>NACE MR0175 | 150X150   | 95        | 95                       |         |
| 75   | ELBOW 90D BW SMLS LR SCH.80 ASME B16.9      | ASTM A234 WPB<br>NACE MR0175 | 50X50     | 49        | 49                       |         |
| 76   | ELBOW 90D BW SMLS LR SCH.80 ASME B16.9      | ASTM A234 WPB<br>NACE MR0175 | 80X80     | 58        | 58                       |         |
| 77   | ELBOW 90D BW SMLS LR SCH.XXS ASME B16.9     | ASTM A234 WPB<br>NACE MR0175 | 50X50     | 8         | 8                        |         |
| 78   | ELBOW 90D BW SMLS LR THK 11.1 MM ASME B16.9 | ASTM A860<br>WPHY52 NACE     | 200X200   | 1         | 1                        |         |
| 79   | ELBOW 90D SW SMLS LR 3000# ASME B16.11      | ASTM A105                    | 20X20     | 6         | 6                        |         |
| 80   | ELBOW 90D SW SMLS LR 3000# ASME B16.11      | ASTM A105                    | 25X25     | 53        | 53                       |         |
| 81   | ELBOW 90D SW SMLS LR 3000# ASME B16.11      | ASTM A105                    | 40X40     | 16        | 16                       |         |



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D02

شماره صفحه: 6 از 14

D02

Totally revised

## MTO FOR FITTINGS

| Item | Description                                              | Material                  | Size (mm) | Req. Qty. | Total Req. Qty.- Rounded | Remarks |
|------|----------------------------------------------------------|---------------------------|-----------|-----------|--------------------------|---------|
| 82   | ELBOW 90D SW SMLS LR 3000# ASME B16.11                   | ASTM A182 F316L           | 20X20     | 207       | 207                      |         |
| 83   | ELBOW 90D SW SMLS LR 3000# ASME B16.11                   | ASTM A182 F316L           | 25X25     | 8         | 8                        |         |
| 84   | ELBOW 90D SW SMLS LR 3000# ASME B16.11                   | ASTM A182 F316L           | 40X40     | 10        | 10                       |         |
| 85   | ELBOW 90D SW SMLS LR 3000# ASME B16.11                   | ASTM A182 F316L NACE      | 20X20     | 3         | 3                        |         |
| 86   | ELBOW 90D SW SMLS LR 3000# ASME B16.11                   | ASTM A182 F316L NACE      | 40X40     | 9         | 9                        |         |
| 87   | ELBOW 90D SW SMLS LR 6000# ASME B16.11                   | ASTM A105 NACE MR0175     | 20X20     | 18        | 18                       |         |
| 88   | ELBOW 90D SW SMLS LR 6000# ASME B16.11                   | ASTM A105 NACE MR0175     | 25X25     | 16        | 16                       |         |
| 89   | ELBOW 90D SW SMLS LR 6000# ASME B16.11                   | ASTM A105 NACE MR0175     | 40X40     | 2         | 2                        |         |
| 90   | ELBOW 90D SW SMLS LR 9000# ASME B16.11                   | ASTM A105 NACE MR0175     | 20X20     | 12        | 12                       |         |
| 91   | ELBOW 90D SW SMLS LR 9000# ASME B16.11                   | ASTM A105 NACE MR0175     | 25X25     | 21        | 21                       |         |
| 92   | ELBOW 90D SW SMLS LR 9000# ASME B16.11                   | ASTM A105 NACE MR0175     | 40X40     | 19        | 19                       |         |
| 93   | ELBOW 90D THRD SMLS LR 3000# ASME B16.11                 | ASTM A105 GALVD           | 25X25     | 30        | 30                       |         |
| 94   | ELBOW 90D THRD SMLS LR 3000# ASME B16.11                 | ASTM A105 GALVD           | 50X50     | 133       | 133                      |         |
| 95   | HOSE-COUPLING BW SMLS SCH.40 ASME B16.9                  | ASTM A234 WPB             | 50X50     | 1         | 1                        |         |
| 96   | HOSE-COUPLING BW SMLS SCH.80 ASME B16.9                  | ASTM A234 WPB             | 50X50     | 1         | 1                        |         |
| 97   | REDUCED COUPLING THRD SMLS 3000# ASME B16.11             | ASTM A105 GALVD           | 50X25     | 2         | 2                        |         |
| 98   | REDUCED COUPLING THRD SMLS 3000# ASME B16.11             | ASTM A105 GALVD           | 50X40     | 2         | 2                        |         |
| 99   | REDUCER CONC BW BE SCH.40XSCH.40 SMLS AS PER ASME B16.9  | ASTM A234 WPB NACE MR0175 | 300X250   | 3         | 3                        |         |
| 100  | REDUCER CONC BW BE SCH.80XSCH.160 SMLS AS PER ASME B16.9 | ASTM A234 WPB NACE MR0175 | 80X50     | 3         | 3                        |         |
| 101  | REDUCER CONC BW BE SMLS SCH.40XSCH.40 ASME B16.9         | ASTM A234 GR.WPB NACE     | 250X150   | 1         | 1                        |         |
| 102  | REDUCER CONC BW BE SMLS SCH.40XSCH.40 ASME B16.9         | ASTM A234 GR.WPB NACE     | 250X200   | 1         | 1                        |         |
| 103  | REDUCER CONC BW SMLS SCH.20XSCH.20 ASME B16.9            | ASTM A234 WPB             | 250X200   | 2         | 2                        |         |
| 104  | REDUCER CONC BW SMLS SCH.40XSCH.40 SMLS ASME B16.9       | ASTM A234 WPB             | 100X50    | 3         | 3                        |         |
| 105  | REDUCER CONC BW SMLS SCH.40XSCH.60 ASME B16.9            | ASTM A234 WPB NACE MR0175 | 250X200   | 3         | 3                        |         |
| 106  | REDUCER CONC BW SMLS SCH.40XSCH.80 ASME B16.9            | ASTM A234 WPB NACE MR0175 | 100X50    | 6         | 6                        |         |
| 107  | REDUCER CONC BW SMLS SCH.40XSCH.80 ASME B16.9            | ASTM A234 WPB NACE MR0175 | 80X50     | 8         | 8                        |         |
| 108  | REDUCER CONC BW SMLS SCH.60XSCH.80 ASME B16.9            | ASTM A234 WPB NACE MR0175 | 200X150   | 3         | 3                        |         |



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## MTO FOR FITTINGS

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پروژه

BK

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نوع مدرک

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سریال

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نسخه

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شماره صفحه: 7 از 14

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Totally revised

## MTO FOR FITTINGS

| Item | Description                                             | Material                  | Size (mm) | Req. Qty. | Total Req. Qty.- Rounded | Remarks |
|------|---------------------------------------------------------|---------------------------|-----------|-----------|--------------------------|---------|
| 109  | REDUCER CONC BW SMLS SCH.80XSCH.100 ASME B16.9          | ASTM A234 WPB NACE MR0175 | 250X200   | 1         | 1                        |         |
| 110  | REDUCER CONC BW SMLS SCH.80XSCH.160 ASME B16.9          | ASTM A234 WPB NACE MR0175 | 80X50     | 2         | 2                        |         |
| 111  | REDUCER CONC BW SMLS SCH.80XSCH.80 ASME B16.9           | ASTM A234 WPB NACE MR0175 | 100X80    | 2         | 2                        |         |
| 112  | REDUCER CONC BW SMLS SCH.80XSCH.80 ASME B16.9           | ASTM A234 WPB NACE MR0175 | 150X100   | 2         | 2                        |         |
| 113  | REDUCER CONC BW SMLS SCH.80XSCH.80 ASME B16.9           | ASTM A234 WPB NACE MR0175 | 200X150   | 1         | 1                        |         |
| 114  | REDUCER CONC PE 100 PBE PN20 ISO 4427/MFR.STD           | HDPE PE100                | 315X250   | 2         | 2                        |         |
| 115  | REDUCER ECC BW BE SCH.40XSCH.80 SMLS AS PER ASME B16.9  | ASTM A234 WPB NACE MR0175 | 250X150   | 1         | 1                        |         |
| 116  | REDUCER ECC BW BE SCH.80XSCH.160 SMLS AS PER ASME B16.9 | ASTM A234 WPB NACE MR0175 | 80X50     | 4         | 4                        |         |
| 117  | REDUCER ECC BW SMLS SCH.100XSCH.120 ASME B16.9          | ASTM A234 WPB NACE MR0175 | 200X150   | 2         | 2                        |         |
| 118  | REDUCER ECC BW SMLS SCH.10XSCH.10S ASME B16.9           | ASTM A403 WP316L NACE     | 100X50    | 2         | 2                        |         |
| 119  | REDUCER ECC BW SMLS SCH.20XSCH.20 ASME B16.9            | ASTM A234 WPB             | 250X200   | 1         | 1                        |         |
| 120  | REDUCER ECC BW SMLS SCH.20XSCH.20 ASME B16.9            | ASTM A234 WPB             | 300X250   | 2         | 2                        |         |
| 121  | REDUCER ECC BW SMLS SCH.40XSCH.40S ASME B16.9           | ASTM A403 WP316L NACE     | 100X80    | 6         | 6                        |         |
| 122  | REDUCER ECC BW SMLS SCH.40XSCH.40S ASME B16.9           | ASTM A403 WP316L NACE     | 150X100   | 9         | 9                        |         |
| 123  | REDUCER ECC BW SMLS SCH.40XSCH.40 ASME B16.9            | ASTM A234 WPB             | 100X50    | 2         | 2                        |         |
| 124  | REDUCER ECC BW SMLS SCH.40XSCH.40 ASME B16.9            | ASTM A234 WPB             | 150X100   | 3         | 3                        |         |
| 125  | REDUCER ECC BW SMLS SCH.40XSCH.40 ASME B16.9            | ASTM A234 WPB             | 80X50     | 2         | 2                        |         |
| 126  | REDUCER ECC BW SMLS SCH.40XSCH.40 ASME B16.9            | ASTM A234 WPB NACE MR0175 | 100X80    | 4         | 4                        |         |
| 127  | REDUCER ECC BW SMLS SCH.40XSCH.60 ASME B16.9            | ASTM A234 WPB NACE MR0175 | 250X200   | 1         | 1                        |         |
| 128  | REDUCER ECC BW SMLS SCH.40XSCH.80 ASME B16.9            | ASTM A234 WPB             | 100X50    | 2         | 2                        |         |
| 129  | REDUCER ECC BW SMLS SCH.40XSCH.80 ASME B16.9            | ASTM A234 WPB NACE MR0175 | 100X50    | 1         | 1                        |         |
| 130  | REDUCER ECC BW SMLS SCH.40XSCH.80 ASME B16.9            | ASTM A234 WPB NACE MR0175 | 80X50     | 1         | 1                        |         |
| 131  | REDUCER ECC BW SMLS SCH.60XSCH.80ASME B16.9             | ASTM A234 WPB NACE MR0175 | 200X150   | 3         | 3                        |         |
| 132  | REDUCER ECC BW SMLS SCH.80XSCH.160 SMLS ASME B16.9      | ASTM A234 WPB NACE MR0175 | 100X50    | 4         | 4                        |         |
| 133  | REDUCER ECC BW SMLS SCH.80XSCH.80 ASME B16.9            | ASTM A234 WPB NACE MR0175 | 100X80    | 2         | 2                        |         |
| 134  | REDUCER ECC BW SMLS SCH.80XSCH.80 ASME B16.9            | ASTM A234 WPB NACE MR0175 | 150X100   | 5         | 5                        |         |
| 135  | REDUCER ECC BW SMLS SCH.80XSCH.80 ASME B16.9            | ASTM A234 WPB NACE MR0175 | 150X80    | 14        | 14                       |         |



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تسهیلات

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PI

نوع مدرک

MT

سریال

0002

نسخه

D02

شماره صفحه: 8 از 14

D02

Totally revised

## MTO FOR FITTINGS

| Item | Description                                                | Material                  | Size (mm) | Req. Qty. | Total Req. Qty.- Rounded | Remarks |
|------|------------------------------------------------------------|---------------------------|-----------|-----------|--------------------------|---------|
| 136  | SWAGED NIPPLE CONC BLE/PSE SMLS SCH.160XSCH.160 MSS-SP-95  | ASTM A234 WPB NACE MR0175 | 50X40     | 6         | 6                        |         |
| 137  | SWAGED NIPPLE CONC BLE/PSE SMLS SCH.160XSCH.XXS MSS-SP-95  | ASTM A234 WPB NACE MR0175 | 50X25     | 1         | 1                        |         |
| 138  | SWAGED NIPPLE CONC BLE/PSE SMLS SCH.40XSCH.40S MSS-SP-95   | ASTM A403 WP316L NACE     | 100X40    | 6         | 6                        |         |
| 139  | SWAGED NIPPLE CONC BLE/PSE SMLS SCH.40XSCH.80 MSS-SP-95    | ASTM A234 WPB             | 50X25     | 5         | 5                        |         |
| 140  | SWAGED NIPPLE CONC BLE/PSE SMLS SCH.80XSCH.160 MSS-SP-95   | ASTM A234 WPB NACE MR0175 | 100X40    | 2         | 2                        |         |
| 141  | SWAGED NIPPLE CONC BLE/PSE SMLS SCH.80XSCH.160 MSS-SP-95   | ASTM A234 WPB NACE MR0175 | 50X25     | 6         | 6                        |         |
| 142  | SWAGED NIPPLE CONC BLE/PSE SMLS SCH.80XSCH.80 MSS-SP-95    | ASTM A234 WPB             | 20X15     | 1         | 1                        |         |
| 143  | SWAGED NIPPLE CONC BLE/PSE SMLS SCH.80XSCH.80 MSS-SP-95    | ASTM A234 WPB             | 50X20     | 2         | 2                        |         |
| 144  | SWAGED NIPPLE CONC BLE/PSE SMLS SCH.80XSCH.80 MSS-SP-95    | ASTM A234 WPB             | 50X25     | 2         | 2                        |         |
| 145  | SWAGED NIPPLE CONC BLE/PSE SMLS SCH.80XSCH.80 MSS-SP-95    | ASTM A234 WPB             | 50X40     | 1         | 1                        |         |
| 146  | SWAGED NIPPLE CONC GALVD THRD SMLS SCH.80XSCH.80 MSS-SP-95 | ASTM A234 WPB             | 25X15     | 16        | 16                       |         |
| 147  | SWAGED NIPPLE CONC PBE SMLS SCH.80XSCH.80 MSS-SP-95        | ASTM A234 GR.WPB          | 40X25     | 3         | 3                        |         |
| 148  | SWAGED NIPPLE CONC PBE SMLS SCH.80XSCH.80 MSS-SP-95        | ASTM A234 WPB             | 25X20     | 1         | 1                        |         |
| 149  | SWAGED NIPPLE CONC PBE SMLS SCH.XXS X SCH.XXS MSS-SP-95    | ASTM A860 WPHY52 NACE     | 25X15     | 3         | 3                        |         |
| 150  | SWAGED NIPPLE CONC PBE SMLS SCH.XXSXSCH.XXS MSS-SP-95      | ASTM A234 GR.WPB NACE     | 25X20     | 1         | 1                        |         |
| 151  | SWAGED NIPPLE CONC PBE SMLS SCH.XXSXSCH.XXS MSS-SP-95      | ASTM A234 WPB NACE MR0175 | 25X20     | 1         | 1                        |         |
| 152  | SWAGED NIPPLE CONC PLE/TSE SMLS SCH.160XSCH.160 MSS-SP-95  | ASTM A234 WPB NACE MR0175 | 25X15     | 70        | 70                       |         |
| 153  | SWAGED NIPPLE CONC PLE/TSE SMLS SCH.40XSCH.40S MSS-SP-95   | ASTM A403 WP316L NACE     | 20X15     | 3         | 3                        |         |
| 154  | SWAGED NIPPLE CONC PLE/TSE SMLS SCH.40XSCH.40S MSS-SP-95   | ASTM A403 WP316L NACE     | 25X15     | 14        | 14                       |         |
| 155  | SWAGED NIPPLE CONC PLE/TSE SMLS SCH.80XSCH.80 MSS-SP-95    | ASTM A234 WPB             | 25X15     | 21        | 21                       |         |
| 156  | SWAGED NIPPLE CONC PLE/TSE SMLS SCH.XXSXSCH.XXS MSS-SP-95  | ASTM A234 WPB NACE MR0175 | 25X15     | 46        | 46                       |         |
| 157  | SWAGED NIPPLE ECC BLE/PSE SMLS SCH.10XSCH.40S MSS-SP-95    | ASTM A403 WP316L NACE     | 50X25     | 2         | 2                        |         |
| 158  | SWAGED NIPPLE ECC BLE/PSE SMLS SCH.40XSCH.80 MSS-SP-95     | ASTM A234 WPB             | 100X40    | 3         | 3                        |         |
| 159  | SWAGED NIPPLE ECC BLE/PSE SMLS SCH.40XSCH.80 MSS-SP-95     | ASTM A234 WPB             | 50X25     | 2         | 2                        |         |
| 160  | SWAGED NIPPLE ECC BLE/PSE SMLS SCH.40XSCH.80 MSS-SP-95     | ASTM A234 WPB             | 50X40     | 3         | 3                        |         |
| 161  | SWAGED NIPPLE ECC PBE SMLS SCH.40XSCH.40S MSS-SP-95        | ASTM A403 WP316L          | 40X20     | 1         | 1                        |         |
| 162  | SWAGED NIPPLE ECC PBE SMLS SCH.80XSCH.80 MSS-SP-95         | ASTM A234 WPB             | 40X25     | 2         | 2                        |         |



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نسخه

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شماره صفحه: 9 از 14

D02

Totally revised

## MTO FOR FITTINGS

| Item | Description                                  | Material                 | Size (mm)  | Req. Qty. | Total Req. Qty.- Rounded | Remarks |
|------|----------------------------------------------|--------------------------|------------|-----------|--------------------------|---------|
| 163  | HALF COUPLING A105 SW SMLS 3000# ASME B16.11 | ASTM A105                | 100X100X40 | 2         | 2                        |         |
| 164  | HALF COUPLING A105 SW SMLS 3000# ASME B16.11 | ASTM A105                | 250X250X25 | 2         | 2                        |         |
| 165  | HALF COUPLING A105 SW SMLS 3000# ASME B16.11 | ASTM A105                | 300X300X25 | 9         | 9                        |         |
| 166  | HALF COUPLING A105 SW SMLS 3000# ASME B16.11 | ASTM A105                | 50X50X15   | 78        | 78                       |         |
| 167  | HALF COUPLING A105 SW SMLS 3000# ASME B16.11 | ASTM A105                | 50X50X20   | 10        | 10                       |         |
| 168  | HALF COUPLING A105 SW SMLS 3000# ASME B16.11 | ASTM A105                | 50X50X25   | 28        | 28                       |         |
| 169  | HALF COUPLING A105 SW SMLS 3000# ASME B16.11 | ASTM A105                | 80X80X25   | 2         | 2                        |         |
| 170  | HALF COUPLING BW SMLS SCH.160 MSS SP-97      | ASTM A105<br>NACE MR0175 | 250X250X50 | 2         | 2                        |         |
| 171  | HALF COUPLING SW 6000# ASME B16.11           | ASTM A105<br>NACE MR0175 | 50X50X20   | 12        | 12                       |         |
| 172  | HALF COUPLING SW 9000# AS PER ASME B16.11    | ASTM A105<br>NACE MR0175 | 200X200X25 | 3         | 3                        |         |
| 173  | HALF COUPLING SW 9000# ASME B16.11           | ASTM A105<br>NACE MR0175 | 100X100X40 | 2         | 2                        |         |
| 174  | HALF COUPLING SW 9000# ASME B16.11           | ASTM A105<br>NACE MR0175 | 150X150X40 | 1         | 1                        |         |
| 175  | HALF COUPLING SW 9000# ASME B16.11           | ASTM A105<br>NACE MR0175 | 200X200X20 | 7         | 7                        |         |
| 176  | HALF COUPLING SW 9000# ASME B16.11           | ASTM A105<br>NACE MR0175 | 250X250X25 | 3         | 3                        |         |
| 177  | HALF COUPLING SW 9000# ASME B16.11           | ASTM A105<br>NACE MR0175 | 50X50X25   | 10        | 10                       |         |
| 178  | HALF COUPLING SW 9000# ASME B16.11           | ASTM A105<br>NACE MR0175 | 50X50X40   | 1         | 1                        |         |
| 179  | HALF COUPLING SW SMLS 3000# ASME B16.11      | ASTM A182<br>F316L NACE  | 100X100X25 | 8         | 8                        |         |
| 180  | HALF COUPLING SW SMLS 3000# ASME B16.11      | ASTM A182<br>F316L NACE  | 50X50X20   | 2         | 2                        |         |
| 181  | HALF COUPLING SW SMLS 3000# ASME B16.11      | ASTM A182<br>F316L NACE  | 50X50X40   | 1         | 1                        |         |
| 182  | HALF COUPLING SW SMLS 6000# ASME B16.11      | ASTM A105<br>NACE MR0175 | 100X100X20 | 1         | 1                        |         |
| 183  | HALF COUPLING SW SMLS 6000# ASME B16.11      | ASTM A105<br>NACE MR0175 | 150X150X20 | 3         | 3                        |         |
| 184  | HALF COUPLING SW SMLS 6000# ASME B16.11      | ASTM A105<br>NACE MR0175 | 200X200X20 | 3         | 3                        |         |
| 185  | HALF COUPLING SW SMLS 6000# ASME B16.11      | ASTM A105<br>NACE MR0175 | 200X200X25 | 18        | 18                       |         |
| 186  | HALF COUPLING SW SMLS 6000# ASME B16.11      | ASTM A105<br>NACE MR0175 | 80X80X20   | 7         | 7                        |         |
| 187  | HALF COUPLING SW SMLS 9000# ASME B16.11      | ASTM A105<br>NACE MR0175 | 100X100X20 | 3         | 3                        |         |
| 188  | HALF COUPLING SW SMLS 9000# ASME B16.11      | ASTM A105<br>NACE MR0175 | 150X150X20 | 16        | 16                       |         |
| 189  | HALF COUPLING SW SMLS 9000# ASME B16.11      | ASTM A105<br>NACE MR0175 | 200X200X20 | 3         | 3                        |         |



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120

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نوع مدرک

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نسخه

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شماره صفحه: 10 از 14

D02

Totally revised

## MTO FOR FITTINGS

| Item | Description                                       | Material                     | Size (mm)       | Req. Qty. | Total Req. Qty.- Rounded | Remarks |
|------|---------------------------------------------------|------------------------------|-----------------|-----------|--------------------------|---------|
| 190  | HALF COUPLING SW SMLS 9000# ASME B16.11           | ASTM A105<br>NACE MR0175     | 200X200X2<br>5  | 8         | 8                        |         |
| 191  | HALF COUPLING SW SMLS 9000# ASME B16.11           | ASTM A105<br>NACE MR0175     | 200X200X4<br>0  | 1         | 1                        |         |
| 192  | HALF COUPLING SW SMLS 9000# ASME B16.11           | ASTM A105<br>NACE MR0175     | 250X250X2<br>0  | 3         | 3                        |         |
| 193  | HALF COUPLING SW SMLS 9000# ASME B16.11           | ASTM A105<br>NACE MR0175     | 250X250X2<br>5  | 1         | 1                        |         |
| 194  | HALF COUPLING SW SMLS 9000# ASME B16.11           | ASTM A105<br>NACE MR0175     | 250X250X4<br>0  | 5         | 5                        |         |
| 195  | HALF COUPLING SW SMLS 9000# ASME B16.11           | ASTM A105<br>NACE MR0175     | 50X50X20        | 17        | 17                       |         |
| 196  | HALF COUPLING SW SMLS 9000# ASME B16.11           | ASTM A105<br>NACE MR0175     | 80X80X20        | 5         | 5                        |         |
| 197  | HALF COUPLING SW SMLS 9000# ASME B16.11           | ASTM A105<br>NACE MR0175     | 80X80X25        | 3         | 3                        |         |
| 198  | LATERAL TEE EQ BW SMLS SCH.160 ASME B16.9         | ASTM A234 WPB<br>NACE MR0175 | 50X50X50        | 1         | 1                        |         |
| 199  | LATERAL TEE EQ BW SMLS SCH.40 ASME B16.9          | ASTM A234 WPB<br>NACE MR0175 | 250X250X2<br>50 | 2         | 2                        |         |
| 200  | LATERAL TEE EQ BW SMLS SCH.60 ASME B16.9          | ASTM A234 WPB<br>NACE MR0175 | 200X200X2<br>00 | 2         | 2                        |         |
| 201  | LATERAL TEE EQ BW SMLS SCH.80 ASME B16.9          | ASTM A234 WPB<br>NACE MR0175 | 150X150X1<br>50 | 4         | 4                        |         |
| 202  | LATERAL TEE RED BW SMLS SCH.40XSCH.60 ASME B16.9  | ASTM A234 WPB<br>NACE MR0175 | 250X250X2<br>00 | 2         | 2                        |         |
| 203  | LATERAL TEE RED BW SMLS SCH.40XSCH.80 ASME B16.9  | ASTM A234 WPB<br>NACE MR0175 | 250X250X1<br>50 | 8         | 8                        |         |
| 204  | LATERAL TEE RED BW SMLS SCH.80XSCH.160 ASME B16.9 | ASTM A234 WPB<br>NACE MR0175 | 100X100X5<br>0  | 1         | 1                        |         |
| 205  | LATERAL TEE RED BW SMLS SCH.80XSCH.160 ASME B16.9 | ASTM A234 WPB<br>NACE MR0175 | 80X80X50        | 1         | 1                        |         |
| 206  | LATERAL TEE RED BW SMLS SCH.80XSCH.80 ASME B16.9  | ASTM A234 WPB<br>NACE MR0175 | 150X150X1<br>00 | 1         | 1                        |         |
| 207  | LATERAL TEE RED BW SMLS SCH.80XSCH.80 ASME B16.9  | ASTM A234 WPB<br>NACE MR0175 | 150X150X8<br>0  | 1         | 1                        |         |
| 208  | LATROLET BW SMLS SCH.40XSCH.160 MSS-SP-97         | ASTM A105<br>NACE MR0175     | 250X250X5<br>0  | 9         | 9                        |         |
| 209  | LATROLET BW SMLS SCH.40XSCH.80 MSS-SP-97          | ASTM A105<br>NACE MR0175     | 250X250X1<br>00 | 8         | 8                        |         |
| 210  | LATROLET BW SMLS SCH.40XSCH.80 MSS-SP-97          | ASTM A105<br>NACE MR0175     | 250X250X8<br>0  | 6         | 6                        |         |
| 211  | LATROLET BW SMLS SCH.80XSCH.160 MSS-SP-97         | ASTM A105<br>NACE MR0175     | 150X150X5<br>0  | 17        | 17                       |         |
| 212  | SOCKOLET SMLS SW 3000# MSS-SP-97                  | ASTM A182<br>F316L NACE      | 50X50X20        | 1         | 1                        |         |
| 213  | SOCKOLET SMLS SW 3000# MSS-SP-97                  | ASTM A182<br>F316L NACE      | 150X150X5<br>0  | 7         | 7                        |         |
| 214  | SOCKOLET SW SMLS 3000# MSS-SP-97                  | ASTM A182<br>F316L NACE      | 100X100X2<br>5  | 3         | 3                        |         |
| 215  | SOCKOLET SW SMLS 3000# MSS-SP-97                  | ASTM A182<br>F316L NACE      | 150X150X2<br>0  | 3         | 3                        |         |
| 216  | SOCKOLET SW SMLS 3000# MSS-SP-97                  | ASTM A182<br>F316L NACE      | 150X150X2<br>5  | 3         | 3                        |         |



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MTO FOR FITTINGS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

PI

نوع مدرک

MT

سریال

0002

نسخه

D02

شماره صفحه: 11 از 14

D02

Totally revised

MTO FOR FITTINGS

| Item | Description                           | Material                  | Size (mm)   | Req. Qty. | Total Req. Qty.- Rounded | Remarks |
|------|---------------------------------------|---------------------------|-------------|-----------|--------------------------|---------|
| 217  | SOCKOLET SW SMLS 3000# MSS-SP-97      | ASTM A182 F316L NACE      | 150X150X40  | 21        | 21                       |         |
| 218  | SOCKOLET SW SMLS 3000# MSS-SP-97      | ASTM A182 F316L NACE      | 50X50X20    | 6         | 6                        |         |
| 219  | SOCKOLET SW SMLS 6000# MSS-SP-97      | ASTM A105 NACE MR0175     | 100X100X20  | 2         | 2                        |         |
| 220  | SOCKOLET SW SMLS 6000# MSS-SP-97      | ASTM A105 NACE MR0175     | 100X100X40  | 2         | 2                        |         |
| 221  | SOCKOLET SW SMLS 6000# MSS-SP-97      | ASTM A105 NACE MR0175     | 150X150X20  | 7         | 7                        |         |
| 222  | SOCKOLET SW SMLS 6000# MSS-SP-97      | ASTM A105 NACE MR0175     | 150X150X25  | 35        | 35                       |         |
| 223  | SOCKOLET SW SMLS 6000# MSS-SP-97      | ASTM A105 NACE MR0175     | 150X150X40  | 29        | 29                       |         |
| 224  | SOCKOLET SW SMLS 6000# MSS-SP-97      | ASTM A105 NACE MR0175     | 200X200X25  | 1         | 1                        |         |
| 225  | SOCKOLET SW SMLS 6000# MSS-SP-97      | ASTM A105 NACE MR0175     | 200X200X40  | 9         | 9                        |         |
| 226  | SOCKOLET SW SMLS 6000# MSS-SP-97      | ASTM A105 NACE MR0175     | 50X50X20    | 7         | 7                        |         |
| 227  | SOCKOLET SW SMLS 6000# MSS-SP-97      | ASTM A105 NACE MR0175     | 50X50X25    | 2         | 2                        |         |
| 228  | SOCKOLET SW SMLS 6000# MSS-SP-97      | ASTM A105 NACE MR0175     | 80X80X20    | 3         | 3                        |         |
| 229  | SOCKOLET SW SMLS 6000# MSS-SP-97      | ASTM A105 NACE MR0175     | 80X80X25    | 6         | 6                        |         |
| 230  | SOCKOLET SW SMLS 9000# MSS-SP-97      | ASTM A105 NACE MR0175     | 100X100X25  | 5         | 5                        |         |
| 231  | SOCKOLET SW SMLS 9000# MSS-SP-97      | ASTM A105 NACE MR0175     | 150X150X25  | 5         | 5                        |         |
| 232  | SOCKOLET SW SMLS 9000# MSS-SP-97      | ASTM A105 NACE MR0175     | 300X300X25  | 1         | 1                        |         |
| 233  | TEE EQ A105 SW SMLS 3000# ASME B16.11 | ASTM A105                 | 25X25X25    | 15        | 15                       |         |
| 234  | TEE EQ A105 SW SMLS 3000# ASME B16.11 | ASTM A105                 | 40X40X40    | 2         | 2                        |         |
| 235  | TEE EQ BW SMLS SCH.10S ASME B16.9     | ASTM A403 GR.WP316L       | 150X150X150 | 9         | 9                        |         |
| 236  | TEE EQ BW SMLS SCH.10S ASME B16.9     | ASTM A403 WP316L NACE     | 100X100X100 | 1         | 1                        |         |
| 237  | TEE EQ BW SMLS SCH.10S ASME B16.9     | ASTM A403 WP316L NACE     | 50X50X50    | 13        | 13                       |         |
| 238  | TEE EQ BW SMLS SCH.160 ASME B16.9     | ASTM A234 WPB NACE MR0175 | 50X50X50    | 7         | 7                        |         |
| 239  | TEE EQ BW SMLS SCH.20 ASME B16.9      | ASTM A234 WPB             | 250X250X250 | 3         | 3                        |         |
| 240  | TEE EQ BW SMLS SCH.20 ASME B16.9      | ASTM A234 WPB             | 300X300X300 | 6         | 6                        |         |
| 241  | TEE EQ BW SMLS SCH.40 ASME B16.9      | ASTM A234 WPB             | 100X100X100 | 4         | 4                        |         |
| 242  | TEE EQ BW SMLS SCH.40 ASME B16.9      | ASTM A234 WPB             | 50X50X50    | 18        | 18                       |         |
| 243  | TEE EQ BW SMLS SCH.40 ASME B16.9      | ASTM A234 WPB             | 80X80X80    | 6         | 6                        |         |



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## MTO FOR FITTINGS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

PI

نوع مدرک

MT

سریال

0002

نسخه

D02

شماره صفحه: 12 از 14

D02

Totally revised

## MTO FOR FITTINGS

| Item | Description                                | Material                  | Size (mm)   | Req. Qty. | Total Req. Qty.- Rounded | Remarks |
|------|--------------------------------------------|---------------------------|-------------|-----------|--------------------------|---------|
| 244  | TEE EQ BW SMLS SCH.40 ASME B16.9           | ASTM A234 WPB NACE MR0175 | 100X100X100 | 3         | 3                        |         |
| 245  | TEE EQ BW SMLS SCH.40 ASME B16.9           | ASTM A234 WPB NACE MR0175 | 250X250X250 | 2         | 2                        |         |
| 246  | TEE EQ BW SMLS SCH.40 ASME B16.9           | ASTM A234 WPB NACE MR0175 | 80X80X80    | 13        | 13                       |         |
| 247  | TEE EQ BW SMLS SCH.40 ASME B16.9           | ASTM A234 GR.WPB NACE     | 150X150X150 | 9         | 9                        |         |
| 248  | TEE EQ BW SMLS SCH.40S ASME B16.9          | ASTM A403 WP316L NACE     | 100X100X100 | 3         | 3                        |         |
| 249  | TEE EQ BW SMLS SCH.40S ASME B16.9          | ASTM A403 WP316L NACE     | 150X150X150 | 12        | 12                       |         |
| 250  | TEE EQ BW SMLS SCH.40S ASME B16.9          | ASTM A403 WP316L NACE     | 50X50X50    | 3         | 3                        |         |
| 251  | TEE EQ BW SMLS SCH.60 ASME B16.9           | ASTM A234 WPB NACE MR0175 | 200X200X200 | 3         | 3                        |         |
| 252  | TEE EQ BW SMLS SCH.80 ASME B16.9           | ASTM A234 WPB             | 50X50X50    | 13        | 13                       |         |
| 253  | TEE EQ BW SMLS SCH.80 ASME B16.9           | ASTM A234 WPB NACE MR0175 | 100X100X100 | 5         | 5                        |         |
| 254  | TEE EQ BW SMLS SCH.80 ASME B16.9           | ASTM A234 WPB NACE MR0175 | 150X150X150 | 13        | 13                       |         |
| 255  | TEE EQ BW SMLS SCH.80 ASME B16.9           | ASTM A234 WPB NACE MR0175 | 250X250X250 | 1         | 1                        |         |
| 256  | TEE EQ BW SMLS SCH.80 ASME B16.9           | ASTM A234 WPB NACE MR0175 | 50X50X50    | 32        | 32                       |         |
| 257  | TEE EQ BW SMLS SCH.80 ASME B16.9           | ASTM A234 WPB NACE MR0175 | 80X80X80    | 19        | 19                       |         |
| 258  | TEE EQ BW SMLS SCH.XXS ASME B16.9          | ASTM A234 WPB NACE MR0175 | 50X50X50    | 1         | 1                        |         |
| 259  | TEE EQ PE 100 PBE PN 20 DIN 16963/MFR. STD | HDPE PE100                | 250X250X250 | 2         | 2                        |         |
| 260  | TEE EQ PE 100 PBE PN 20 ISO 4427/MFR.STD   | HDPE PE100                | 63X63X63    | 1         | 1                        |         |
| 261  | TEE EQ SW SMLS 6000# ASME B16.11           | ASTM A105 NACE MR0175     | 25X25X25    | 1         | 1                        |         |
| 262  | TEE EQ SW SMLS 3000# ASME B16.11           | ASTM A105                 | 25X25X25    | 2         | 2                        |         |
| 263  | TEE EQ SW SMLS 3000# ASME B16.11           | ASTM A105                 | 40X40X40    | 2         | 2                        |         |
| 264  | TEE EQ SW SMLS 3000# ASME B16.11           | ASTM A182 F316L           | 20X20X20    | 48        | 48                       |         |
| 265  | TEE EQ SW SMLS 3000# ASME B16.11           | ASTM A182 F316L NACE      | 40X40X40    | 3         | 3                        |         |
| 266  | TEE EQ SW SMLS 9000# ASME B16.11           | ASTM A105 NACE MR0175     | 25X25X25    | 1         | 1                        |         |
| 267  | TEE EQ THRD SMLS 3000# ASME B16.11         | ASTM A105 GALVD           | 25X25X25    | 9         | 9                        |         |
| 268  | TEE EQ THRD SMLS 3000# ASME B16.9          | ASTM A105 GALVD           | 50X50X50    | 29        | 29                       |         |
| 269  | TEE RED A105 SW SMLS 3000# ASME B16.11     | ASTM A105                 | 25X25X15    | 32        | 32                       |         |
| 270  | TEE RED A105 SW SMLS 3000# ASME B16.11     | ASTM A105                 | 25X25X20    | 3         | 3                        |         |



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شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

PI

نوع مدرک

MT

سریال

0002

نسخه

D02

شماره صفحه: 13 از 14

D02

Totally revised

## MTO FOR FITTINGS

| Item | Description                                    | Material                  | Size (mm)   | Req. Qty. | Total Req. Qty.- Rounded | Remarks |
|------|------------------------------------------------|---------------------------|-------------|-----------|--------------------------|---------|
| 271  | TEE RED A105 SW SMLS 3000# ASME B16.11         | ASTM A105                 | 40X40X25    | 2         | 2                        |         |
| 272  | TEE RED BW BE SMLS THK11.1MMXSCH.80 ASME B16.9 | ASTM A860 WPHY52 NACE     | 200X200X100 | 1         | 1                        |         |
| 273  | TEE RED BW SMLS SCH.100XSCH.120 ASME B16.9     | ASTM A234 WPB NACE MR0175 | 200X200X100 | 1         | 1                        |         |
| 274  | TEE RED BW SMLS SCH.100XSCH.120 ASME B16.9     | ASTM A234 WPB NACE MR0175 | 200X200X150 | 1         | 1                        |         |
| 275  | TEE RED BW SMLS SCH.120XSCH.160 ASME B16.9     | ASTM A234 WPB NACE MR0175 | 100X100X50  | 1         | 1                        |         |
| 276  | TEE RED BW SMLS SCH.20XSCH.20 ASME B16.9       | ASTM A234 WPB             | 300X300X250 | 4         | 4                        |         |
| 277  | TEE RED BW SMLS SCH.20XSCH.40 ASME B16.9       | ASTM A234 WPB             | 250X250X150 | 1         | 1                        |         |
| 278  | TEE RED BW SMLS SCH.40XSCH.40S ASME B16.9      | ASTM A403 GR.WP316L       | 150X150X100 | 6         | 6                        |         |
| 279  | TEE RED BW SMLS SCH.40XSCH.40 ASME B16.9       | ASTM A234 WPB             | 100X100X50  | 8         | 8                        |         |
| 280  | TEE RED BW SMLS SCH.40XSCH.40 ASME B16.9       | ASTM A234 WPB             | 100X100X80  | 1         | 1                        |         |
| 281  | TEE RED BW SMLS SCH.40XSCH.40 ASME B16.9       | ASTM A234 WPB             | 80X80X50    | 2         | 2                        |         |
| 282  | TEE RED BW SMLS SCH.40XSCH.40 ASME B16.9       | ASTM A234 WPB NACE MR0175 | 150X150X80  | 3         | 3                        |         |
| 283  | TEE RED BW SMLS SCH.40XSCH.60 ASME B16.9       | ASTM A234 WPB NACE MR0175 | 250X250X200 | 4         | 4                        |         |
| 284  | TEE RED BW SMLS SCH.40XSCH.80 ASME B16.9       | ASTM A234 WPB             | 80X80X50    | 8         | 8                        |         |
| 285  | TEE RED BW SMLS SCH.40XSCH.80 ASME B16.9       | ASTM A234 WPB NACE MR0175 | 80X80X50    | 16        | 16                       |         |
| 286  | TEE RED BW SMLS SCH.60XSCH.80 ASME B16.9       | ASTM A234 WPB NACE MR0175 | 200X200X100 | 1         | 1                        |         |
| 287  | TEE RED BW SMLS SCH.60XSCH.80 ASME B16.9       | ASTM A234 WPB NACE MR0175 | 200X200X150 | 1         | 1                        |         |
| 288  | TEE RED BW SMLS SCH.80XSCH.160 ASME B16.9      | ASTM A234 WPB NACE MR0175 | 100X100X50  | 5         | 5                        |         |
| 289  | TEE RED BW SMLS SCH.80XSCH.160 ASME B16.9      | ASTM A234 WPB NACE MR0175 | 80X80X50    | 42        | 42                       |         |
| 290  | TEE RED BW SMLS SCH.80XSCH.80 ASME B16.9       | ASTM A234 GR.WPB NACE     | 200X200X150 | 3         | 3                        |         |
| 291  | TEE RED BW SMLS SCH.80XSCH.80 ASME B16.9       | ASTM A234 WPB NACE MR0175 | 100X100X80  | 1         | 1                        |         |
| 292  | TEE RED BW SMLS SCH.80XSCH.80 ASME B16.9       | ASTM A234 WPB NACE MR0175 | 150X150X100 | 9         | 9                        |         |
| 293  | TEE RED BW SMLS SCH.80XSCH.80 ASME B16.9       | ASTM A234 WPB NACE MR0175 | 150X150X80  | 1         | 1                        |         |
| 294  | TEE RED BW SMLS SCH.80XSCH.80 ASME B16.9       | ASTM A234 WPB NACE MR0175 | 200X200X100 | 1         | 1                        |         |
| 295  | TEE RED PE 100 PBE PN20 DIN 16963 & MFR. STD   | HDPE PE100                | 250X250X110 | 1         | 1                        |         |
| 296  | TEE RED PE 100 PBE PN20 DIN 16963 & MFR. STD   | HDPE PE100                | 250X250X160 | 21        | 21                       |         |
| 297  | TEE RED SW SMLS 6000# ASME B16.11              | ASTM A105 NACE MR0175     | 25X25X20    | 1         | 1                        |         |



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پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

PI

نوع مدرک

MT

سریال

0002

نسخه

D02

شماره صفحه: 14 از 14

D02

Totally revised

## MTO FOR FITTINGS

| Item | Description                                   | Material              | Size (mm)   | Req. Qty. | Total Req. Qty.- Rounded | Remarks |
|------|-----------------------------------------------|-----------------------|-------------|-----------|--------------------------|---------|
| 298  | TEE RED SW SMLS 3000# ASME B16.11             | ASTM A105             | 40X40X20    | 2         | 2                        |         |
| 299  | TEE RED SW SMLS 3000# ASME B16.11             | ASTM A105             | 40X40X25    | 2         | 2                        |         |
| 300  | TEE RED SW SMLS 3000# ASME B16.11             | ASTM A182 F316L       | 25X25X20    | 1         | 1                        |         |
| 301  | TEE RED SW SMLS 3000# ASME B16.11             | ASTM A182 F316L       | 40X40X20    | 15        | 15                       |         |
| 302  | TEE RED SW SMLS 3000# ASME B16.11             | ASTM A182 F316L NACE  | 40X40X20    | 3         | 3                        |         |
| 303  | TEE RED SW SMLS 6000# ASME B16.11             | ASTM A105 NACE MR0175 | 40X40X20    | 1         | 1                        |         |
| 304  | TEE RED THRD SMLS 3000# ASME B16.11           | ASTM A105 GALVD       | 50X50X20    | 2         | 2                        |         |
| 305  | TEE RED THRD SMLS 3000# ASME B16.11           | ASTM A105 GALVD       | 50X50X25    | 56        | 56                       |         |
| 306  | WELDOLET A105 BW SMLS SCH.20XSCH.80 MSS-SP-97 | ASTM A105             | 300X300X50  | 4         | 4                        |         |
| 307  | WELDOLET BW SMLS SCH.40XSCH.80 MSS-SP-97      | ASTM A105 NACE MR0175 | 250X250X100 | 1         | 1                        |         |
| 308  | WELDOLET BW SMLS SCH.40XSCH.80 MSS-SP-97      | ASTM A105 NACE MR0175 | 250X250X80  | 2         | 2                        |         |
| 309  | WELDOLET BW SMLS SCH.80XSCH.160 MSS-SP-97     | ASTM A105 NACE MR0175 | 150X150X50  | 18        | 18                       |         |
| 310  | WELDOLET BW SMLS SCH.80XSCH.160 MSS-SP-97     | ASTM A105 NACE MR0175 | 200X200X50  | 1         | 1                        |         |
| 311  | WELDOLET BW SMLS SCH.80XSCH.80 MSS-SP-97      | ASTM A105 NACE MR0175 | 150X150X50  | 9         | 9                        |         |
| 312  | WELDOLET BW SMLS SCH.80XSCH.80 MSS-SP-97      | ASTM A105 NACE MR0175 | 200X200X50  | 3         | 3                        |         |
| 313  | WELDOLET BW SMLS SCH.80XSCH.XXS MSS-SP-97     | ASTM A105 NACE MR0175 | 250X250X50  | 1         | 1                        |         |
| 314  | WELDOLET BW SMLSSCH.60X SCH.160 MSS-SP-97     | ASTM A105 NACE MR0175 | 200X200X50  | 10        | 10                       |         |

Note 1: Revision D08 of BK-GCS-PEDCO-120-PR-PI-0002~25 & BK-PPL-PEDCO-320-PR-PI-0001\_D05 & BK-GCS-PEDCO-120-SA-PI-0001\_D05 is referenced.

Note 2: No contingency is considered.