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|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----|----|-----|----|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|
| OWNER:<br><br>شرکت سست و سویی آوند ایرانیان<br>(سهایی نایب) | BUSHEHR PETROCHEMICAL COMPANY<br>MEG PLANT                      |    |    |     |    |     | EPC CONTRACTOR:<br><br>Chagalesh-Enerchimi-Steam<br>Joint Venture<br>BUPC-MEG PLANT PROJECT |             |                |
| MC :<br><br>شرکت سست و سویی آوند ایرانیان<br>مدیران        | MAIN OIL PUMP MECHANICAL DATA<br>SHEET FOR NITROGEN GAS BOOSTER |    |    |     |    |     | <br>Netherlands                                                                             |             |                |
| Owner Document Number:<br>17811-11E                                                                                                         |                                                                 |    |    |     |    |     | Project                                                                                                                                                                        | Area        | Phase          |
|                                                                                                                                             | BU                                                              | 20 | VD | 303 | ME | DSH | 0019                                                                                                                                                                           | Rev.:<br>03 | Page<br>1 of 3 |

## MAIN OIL PUMP MECHANICAL DATA SHEET FOR NITROGEN GAS BOOSTER

|                                                                                                                                                        |                                                                                                                                                             |                                               |
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| <br>شرکت سست و سویی آوند ایرانیان<br>توسعه ایرانیان                  | <br>Chagalesh-Enerchimi-Steam<br>Joint Venture<br>BUPC-MEG PLANT PROJECT | BUSHEHR PETROCHEMICAL<br>COMPANY<br>MEG PLANT |
| <b>Document Review</b>                                                                                                                                 |                                                                                                                                                             |                                               |
| Issue Purpose:                                                                                                                                         | AB                                                                                                                                                          |                                               |
| Result Code: AP,AN,CM,RE,NC                                                                                                                            | AP                                                                                                                                                          |                                               |
| Next Status : IFC,IFA,IFI,AFC,AB                                                                                                                       | -                                                                                                                                                           |                                               |
| Responsible Department                                                                                                                                 | MECHANIC                                                                                                                                                    |                                               |
| Commented Date                                                                                                                                         | Apr.30.2023                                                                                                                                                 |                                               |
| <b>Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.</b> |                                                                                                                                                             |                                               |

|            |             |                           |                 |                |                 |                 |
|------------|-------------|---------------------------|-----------------|----------------|-----------------|-----------------|
|            |             |                           |                 |                |                 |                 |
| 03         | 26/04/2023  | As Built                  | KP              | LdM            | CL              |                 |
| 02         | 07/01/2022  | Approved for construction | KP              | LdM            | CL              |                 |
| 01         | 15/12/2021  | For approval              | KP              | LdM            | CL              |                 |
| 00         | 16/11/2021  | For approval              | KP              | LdM            | CL              |                 |
| <b>Rev</b> | <b>Date</b> | <b>Purpose of Issue</b>   | <b>Prepared</b> | <b>Checked</b> | <b>Approved</b> | <b>AC Code</b>  |
| .          |             |                           |                 |                |                 |                 |
|            |             |                           |                 |                | <b>Class: 1</b> | <b>Phase: P</b> |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   |                                                                                                                     |  |              |                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--|--------------|----------------------------------------|
| VENDOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                   | <br><b>MAIN OIL PUMP DATASHEET</b> |  | P.O. No.     | 52-98/445                              |
|     <br>شرکت سست و مونت ایرپک (سهامی خاص)<br>Chagaleh-Enerchimi-Steam<br>Joint Venture<br>BUFC-MEG PLANT PROJECT |                                                                                                                                   |                                                                                                                     |  | Document No. | 17811-11E                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   |                                                                                                                     |  | Sheet No.    | 3                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   |                                                                                                                     |  | Rev.No       | 03                                     |
| CONTRACTOR / END USER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   | <b>BUSHEHR PETROCHEMICAL<br/>COMPANY<br/>MEG PLANT</b>                                                              |  |              |                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   |                                                                                                                     |  | Service      | instrument air compressor<br>20-C-1002 |
| <b>SHAFT DRIVEN OIL PUMP</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                     |  |              |                                        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                   |                                                                                                                     |  |              |                                        |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>No. Required</b>                                                                                                               | 1                                                                                                                   |  |              |                                        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>MFR Supplier</b>                                                                                                               | Mehrer                                                                                                              |  |              |                                        |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Type of Pump :</b>                                                                                                             | Gear Pump (Shaft driven)                                                                                            |  |              |                                        |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Oil Type (Pumping Fluid) :</b>                                                                                                 | Klüber Summit PS300                                                                                                 |  |              |                                        |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Capacity :</b>                                                                                                                 | 30 - 50 L/h                                                                                                         |  |              |                                        |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Min.. Oil Temperature :</b>                                                                                                    | 5 °C                                                                                                                |  |              |                                        |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Max. Oil Temperature :</b>                                                                                                     | 70 °C                                                                                                               |  |              |                                        |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Max. Allowable Oil Pressure / MAWP :</b>                                                                                       | 4 bar(g)                                                                                                            |  |              |                                        |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Min. Allowable Oil Pressure :</b>                                                                                              | 1,6 bar(g)                                                                                                          |  |              |                                        |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Operating Oil Pressure :</b>                                                                                                   | 2,0 bar(g)                                                                                                          |  |              |                                        |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>PRV Set Pressure :</b>                                                                                                         | 2,0 bar(g)                                                                                                          |  |              |                                        |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Location :</b>                                                                                                                 | Rear bearing cover                                                                                                  |  |              |                                        |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Material of pump :</b>                                                                                                         | SS gear and Nodular iron body                                                                                       |  |              |                                        |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Design Temperature :</b>                                                                                                       | -5 to 85°C                                                                                                          |  |              |                                        |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Design pressure</b>                                                                                                            | 3,5 bar(g)                                                                                                          |  |              |                                        |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>RPM of Pump</b>                                                                                                                | Gear driven so not applicable                                                                                       |  |              |                                        |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Design</b>                                                                                                                     | manufacturer standard                                                                                               |  |              |                                        |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>NOTES : The real conditions depends on the environmental temperatures and the working conditions as speed and duty circle.</b> |                                                                                                                     |  |              |                                        |