



NET4GAS, s.r.o

**COMPRESSOR STATION JIRKOV
73 BAR
SUPPLIER Document Requirement List
for EMCS**

29.11.2017

**Annex 1
Attachment 1.3**

ILF CONSULTING ENGINEERS

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REVISION HISTORY

| | | | | | |
|------|----------|----------------|---------------|---------|-----------|
| | | | | | |
| 002 | 29.11.17 | APPROVED | Fanaca / TEAM | Foltin | Schorling |
| 001 | 01.08.17 | APPROVED | TEAM | Foltin | Schorling |
| 000 | 11.07.17 | APPROVED | Fanaca / TEAM | Foltin | Schorling |
| B01 | 19.05.17 | IFR | Fanaca / TEAM | Foltin | Schorling |
| A01 | 01.05.17 | IDC | Fanaca / TEAM | Voltin | |
| P01 | 02.05.17 | Start | Fanaca / TEAM | | |
| Rev. | Date | Issue, Purpose | Prepared | Checked | Approved |

| Phase of Contract Subject-Matter | | | EMCS Engineering and Supply | | | | | | | |
|----------------------------------|--|---|--|--|---|---|---|-----------------------------------|-------------------|--|
| No. | Document Title | Explanation and Remarks | Submission with offer Design documentation for issue of Building Permit or Building Notification (DSP) [weeks after Contract Signature] Note 10 | Detail Engineering Documentation [weeks after Contract Signature] | Documentation required for SITE acceptance by responsible authorities [HOLD] | Other activities and milestones for the project engineering and management | As-built Documentation [as per Contract] | Penalized Doc. Submission Date | In Czech Language | |
| 1 | GENERAL PROJECT MANAGEMENT | | | | | | | | | |
| 2 | Monthly Progress Reports | | | | | monthly issue | | | | |
| 3 | Supplier Document Requirements List (SDRL) | | X | | | monthly issue | | | | |
| 4 | Break down list of supplied equipment | Shall minimum included: Description of equipment, producer, type, specification, technical conditions, expected delivery date, actual delivery date | X | | | monthly issue | | | | |
| 5 | List of Sub-suppliers | List of Sub-suppliers of equipment and services | X | | | monthly issue | | | | |
| 6 | Quality Assurance and Quality Control Plan (QA/QC) | Quality Assurance and Quality Control Plan (QA/QC) shall be issued per ISO 9001 Preliminary Quality Assurance and Quality Control Plan (QA/QC) shall be issued with bid Actual Quality Assurance and Quality Control Plan (QA/QC) shall be issued 4 weeks after Contract Signature. Shall be reviewed during Monthly progress report | X | 4 | | monthly issue | | | X | |
| 7 | HSSE Plan | Health, safety, security and environment plan | X | | | | X | | X | |
| 8 | Manufacturer Procedures | Internal technical specification for product manufacturing, inspection, testing, packaging and handling | | | | To be agreed during Pre Inspection Meeting (PIM) | X | | | |
| 9 | Maintenance Schedule | | X | | | | | | | |
| 10 | List of Comments, Exceptions and Deviations to Tender Documentation | Attachment 1.22.4 | X | | | | | | | |
| 11 | List of Deviations to the CONTRACT | Deviations of the CONTRACT during execution of the project, shall be filled in the SUPPLIER and submitted as part of the Monthly Progress Reports. | | | | monthly issue | | | | |
| 12 | List of References | | X | | | | | | | |
| 13 | PROJECT SCHEDULES | | | | | | | | | |
| 14 | Time schedule for manufacturing, factory testing and delivery to SITE | to be included in the Monthly Progress Reports, see item 2 above | X | | | monthly issue | | | | |
| 15 | Time schedule for installation, commissioning, start-up and SITE testing | Comply to milestones in Annex 2 | X | | | 4 weeks before delivery | | | | |
| 16 | GENERAL ARRANGEMENT AND GENERAL LAYOUT DRAWINGS | | | | | | | | | |
| 17 | 3D Model of the EMCS skids including all system boundaries and maintenance space requirements, obstruction volumes, etc. | Native, e.g. stp format (or other upon agreement) All discipline Owner interfaces to be indicated. | | | 12 | | X | X | | |
| 18 | General arrangement drawings of EMCS compressor skid including location and detail drawings of all civil, mechanical and electrical interfaces; shall include, weight of main equipment, all data required for foundation design, details of all cable and piping connections at skid edge including requirements for cable trenches / cable channels, maintenance space | | X | 10 | 14 | | X | X | X | |
| 19 | General arrangement drawings of all auxiliary equipment including location and detail drawings of all civil, mechanical and electrical interfaces; shall include, weight of main equipment, data required for foundation design, details on cable and pipe connections including requirements for cable trenches / cable channels, maintenance space requirements. | | X | 10 | 16 | | X | X | X | |
| 20 | General arrangement drawings of all electrical and I&C cabinets including location and detail drawings of all mechanical and electrical interfaces, disposition plans, weight of cabinets, maintenance and access space requirements etc. | | X | 10 | 14 | | X | X | X | |
| 21 | General arrangement drawings of VSD Transformers including location and detail drawings of all civil, mechanical and electrical interfaces; shall include, weight, data required for foundation design, maintenance space requirements etc. | | X | 10 | 16 | | X | X | X | |
| 22 | General arrangement drawings of the VSD outdoor heat exchangers including supporting structure and access platforms, location and detail drawings of all civil, mechanical and electrical interfaces, weight and all data required for foundation design. | | X | 10 | 16 | | X | X | X | |
| 23 | Detail drawings with foundation templates for all equipment included in the SCOPE OF SUPPLY including anchor details, grouting requirements, requirements for cable and piping trenches, static and dynamic loads and moments etc. | | | 10 | 16 | | X | X | X | |
| 24 | Detail drawings for all field piping included in the SCOPE OF SUPPLY, shall include all tie-in points with size and pressure ratings, pipe supports, slope requirements, coating and insulation requirements, pipe elevation, requirements for maintenance space, Owner line numbering, etc. | | | 10 | 16 | | X | X | X | |
| 25 | Detail drawings for all local vent piping included in the SCOPE OF SUPPLY, shall include all tie-in points with size and pressure ratings, pipe supports, slope requirements, insulation requirements, pipe elevation, requirements for maintenance space, Owner line numbering, etc. | | | | 18 | | X | | | |
| 26 | General arrangement drawings of the anti-surge valves, hot bypass valves, pressurization valves including detail drawings of all mechanical, electrical, I&C and civil interfaces, weight data, maintenance space requirements etc. | | | 10 | 16 | | X | X | X | |
| 27 | General arrangement drawings of all instrumentation included in the SCOPE OF SUPPLY including detail drawings of all mechanical and electrical interfaces. | | | | 18 | | X | | | |
| 28 | Assembly (sectional) drawings of the EM and CU | | | | 20 | | X | | | |
| 29 | Layout and general arrangement drawings of all junction boxes including details for all cable connection points | | | 10 | 20 | | X | | X | |
| 30 | Maintenance Drawings for all equipment included in the SCOPE OF SUPPLY, shall include representations of all maintenance sequences, requirements for equipment dismantling, layout drawings of all maintenance tools | | X | | 20 | | X | X | | |
| 31 | Heat dissipation data sheets for all mechanical, electrical and I&C cabinets, EMCS cooling piping inside electrical buildings and inside EMCS compressor building (Residual heat load list) | | X | 10 | 14 | | X | X | X | |
| 32 | Hazardous Area drawings | | X | | 18 | | X | X | | |
| 33 | MECHANICAL DESIGN | | | | | | | | | |
| 34 | Tie-in schedule | This document "Tie-in schedule" shall contain the list of all process connection points including specification (NPS, pressure rating, material, etc.) for all media (instrument air, process gas, etc.) along with requested terms of their availability for meeting the time-schedule for EMCS mechanical completion and commissioning in accordance with the milestones specified in Annex 2 to the CONTRACT | X | 10 | 14 | | X | X | X | |

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| 35 | Utility Consumption List, list of all operating media including required quality and quantities | shall include instrument air, VSD cooling medium, VSD transformer oil (if applicable), all waste substances including the following information for each operating medium as a minimum: chemical grade, consumption / injection rates, losses, average monthly / annual consumption, chemical supplier, requirements for chemical storage, method of disposal. | X | 10 | 14 | | X | X | X |
| 36 | CU Data Sheet (API 617 Data Sheet) | | X | | 20 | | X | | |
| 37 | Heat exchanger Data Sheets (VSD cooler) | | X | | 16 | | X | | |
| 38 | Leakage monitoring system Data Sheet (for outdoor cooling piping of EMD) | | | 10 | 18 | | X | | X |
| 39 | Data Sheets of all auxiliary equipment | | X | | 18 | | X | | |
| 40 | EMCS Performance Data, Performance Curves, Characteristics Curves, Starting Curves (speed vs. torque curves) | | X | | 20 | | X | | |
| 41 | Data on allowable Nozzle Loads (Forces and Moments) for the following flange connections as a minimum: -CU suction flange -CU discharge flange -Instrument Air tie-in interface | Shall include: - Maximum allowable external forces (Fx, Fy, Fz) and moments (Mx, My, Mz) - Maximal allowable tolerances for installation | | 10 | 14 | | X | X | X |
| 42 | Pipe isometrics for all interconnecting and vent piping included in the SCOPE OF SUPPLY | SUPPLIER piping classes are applicable for the SCOPE OF SUPPLY. Battery limits shall be in accordance with the Owner piping classes. Shall include all pipe fittings, pipe supports including type (glide, fixed), location, etc. | | 10 | 16 | | X | X | X |
| 43 | Piping Book, Breakdown Piping Schedule for all interconnecting and vent piping included in the SCOPE OF SUPPLY | | | | 16 | | X | X | |
| 44 | Noise Emissions Data Sheet | | X | 10 | 20 | | X | X | X |
| 45 | Complete EMCS Train Torsional Analysis Report; shall include EM, CU and couplings (if applicable) | | | | 20 | | X | | |
| 46 | Complete EMCS Train Lateral Analysis Report; shall include EM, CU and couplings (if applicable) | | | | 20 | | X | | |
| 47 | Detailed technical description of all main mechanical equipment | Technical description of e.g. anti-surge valve, hot bypass valve, pumps, coolers, heat exchangers, compressor, etc. | X | | 14 | | X | | X |
| 48 | ELECTRICAL DESIGN | | | | | | | | |
| 49 | Detailed technical description for all electrical equipment | Technical description of e.g. switches, EM, VSD, VSD transformer, etc. | X | | 14 | | X | | X |
| 50 | General description of operating parameters for all electrical equipment | | X | 10 | 14 | | X | | X |
| 51 | Protection setting scheme for all electrical equipment included in the SCOPE OF SUPPLY / equipment including the 22 kV, 6.3 kV and 0.4 kV switchgears | | | 10 | 18 | | X | X | X |
| 52 | VSD technical data | | X | 10 | 16 | | X | | X |
| 53 | Harmonic Study as per Annex 1, Chapter 4.1.8 | | X | 10 | 16 | | X | X | X |
| 54 | Electric Load List | as per Annex 1, Attachment 1.7 | X | 10 | 16 | | X | X | |
| 55 | One Line Diagrams for the EMCS and auxiliaries, shall include the MV and LV distribution (MCC) | | X | 10 | 16 | | X | X | X |
| 56 | Wiring Diagrams for the EMCS and auxiliaries, MV, LV distribution (MCC), I&C, interconnecting cabling. | shall include all junction boxes, equipment cabinets, termination panels, battery limits, location of equipment and cabling (Compressor Building, Electric Building, field location, etc.), Owner TAG numbering, list of components. | | | 20 | | X | | |
| 57 | Cable Block Diagrams for the EMCS and auxiliaries, MV, LV distribution (MCC), I&C, interconnecting cabling. | | | 10 | 16 | | X | X | X |
| 58 | Cable Lists for all MV, LV, I&C and telecommunication cabling included in the SCOPE OF SUPPLY | shall include all cabling in the SCOPE OF SUPPLY with considering the cabling related to one EMCS as well as the total number of EMCS, Owner TAG numbering, cable lengths, cable voltage levels, details on type of cable (I&C, power, telecommunication, etc.), cable cross sections, number of cores, etc. | | | 20 | | X | X | |
| 59 | Cable Data Sheets for all MV, LV, I&C and telecommunication cabling included in the SCOPE OF SUPPLY | | | | 20 | | X | | |
| 60 | Calculation reports for all power cabling included in the SCOPE OF SUPPLY (MV and LV power cabling) | | | | 22 | | X | | |
| 61 | Interlocking System Specification | | X | | 18 | | X | | |
| 62 | Typical Data Sheets | Typical datasheets for e.g. relays, switches, MCC, etc. | | | 18 | | X | | |
| 63 | EM Data Sheet | | X | | 18 | | X | | |
| 64 | LV e-motor Data-Sheets | | | | 18 | | X | | |
| 65 | EMD Performance Curves as per IEC 61800-5 | | X | | 18 | | X | | |
| 66 | EMD Start-up Curves | Diagram of torque, power, speed vs. time | X | | 18 | | X | | |
| 67 | Battery System Data Sheet | Battery data sheet for magnetic bearings - if applicable Battery datasheet for common UPS - if applicable | | | 20 | | X | | |
| 68 | UPS System Data Sheet | AC and DC system for common UPS. Magnetic bearing system if applicable. | | | 20 | | X | | |
| 69 | Earthing Plan for all electrical equipment included in the SCOPE OF SUPPLY | | | 10 | 18 | | X | X | X |
| 70 | List with hazardous area classification including Ex-certificates of all equipment included in the SCOPE OF SUPPLY | | | | 20 | | X | X | |
| 71 | Relay protection settings schedule | | | | 20 | | X | X | |
| 72 | Declaration of Conformity according to EC Directive of Machinery 2006/42/EG for the complete Scope of Supply | | | | | X | 1 week prior EMCS 1/2/3 installation on site | X | X |
| 73 | Declaration of Conformity according to the Low Voltage Directive (LVD) 2014/35/EU for the complete Scope of Supply | | | | | X | 1 week prior EMCS 1/2/3 installation on site | X | X |
| 74 | Declaration of Conformity according to IEC/ EN 61800-3 Electromagnetic compatibility (EMC) for the complete SCOPE OF SUPPLY | | | | | X | 1 week prior EMCS 1/2/3 installation on site | X | X |
| 75 | Report on the power network quality measurements prior to the commissioning of the drive systems (EMD) | | | | | | 2 weeks after completion of the power network quality measurements | X | X |
| 76 | Report on the power network quality measurements after the commissioning of the drive systems (EMD) | | | | | | 2 weeks after completion of the power network quality measurements | X | X |
| 77 | PROCESS, INSTRUMENTATION AND CONTROLS | | | | | | | | |
| 78 | Piping and Instrumentation Diagrams (P&IDs) for the EMCS and all auxiliary equipment including ESD and CU recirculation loops, VSD and EM cooling, etc. | shall include the legend sheet, Owner TAG numbering, reference drawings, piping and valves sizes, piping classes, all control loops, safety functions, push buttons, switches, slope lines, minimum straight pipe lengths required, equipment elevations, battery limits, instrumentation settings, table of fluids, etc. | X | 10 | 16 | | X | X | X |
| 79 | Piping and Instrumentation Diagrams (P&IDs) for all pneumatic actuators included in the SCOPE OF SUPPLY | see requirements from item no. 78 above | | | 18 | | X | | |
| 80 | Unit Control System drawing / architecture | shall include design specification of all hardware required by UCS, functional descriptions, test procedures, Cyber Security concept and disaster recovery description. | X | | 16 | | X | X | |
| 81 | Communications Block Diagram | | X | | 16 | | X | X | |

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| 82 | EMCS Unit Control System wiring diagrams including ESD | shall include Owner TAG numbering, detail drawings of all terminal panels, cable number, core identifier, references drawings, shall cover all areas (field installation, compressor building, electrical building, junction boxes, cabinets, etc.), list of components / part list. | | | 20 | | | X | X | |
| 83 | Instrumentation loop diagrams | | | | 20 | | | X | X | |
| 84 | I/O Signal List including interface schedule and detail requirements for all interfaces to SCS, station ESD and Electrical systems | | | | 20 | | | X | X | |
| 85 | Modbus Signal List including interface schedule to SCS and Electrical systems | shall include project specific alarm and trip setting values, Owner TAG numbering, descriptions of communication protocol and configurations such as IP Address, Port, Data Format, Data Type etc.; shall include the register for each signal (the address where the data associated). | | | 20 | | | X | X | |
| 86 | Communication Gateway List | | | | 20 | | | X | | |
| 87 | Cause and Effect Diagram | | | | 18 | | | X | X | |
| 88 | Functional Logic Diagrams including Control Loop Narratives (as per DIN EN 60848) with all warnings, alarms and trip set values | Logic diagrams with textual descriptions. The EMCS Supplier shall provide all relevant documents (even separate docs if needed). | | | 20 | | | X | X | |
| 89 | Hook-up drawings for process instrumentation | | | | 20 | | | X | | |
| 90 | Risk analysis for full SCOPE OF SUPPLY (Standards EN 12583, EN 61508 and EN 61511) | | | | 20 | | | X | X | |
| 91 | UCS HMI Visualization Displays | For the successful progress of the PROJECT, the EMCS Supplier shall submit necessary and required information for each particular phase. Including all marking labels related to standard operation and maintenance shall be provided bilingual EN/CZ | X | | 20 | | | X | | X |
| 92 | Instrumentation list / index for all instrumentation included in the SCOPE OF SUPPLY; shall include EMCS compressor skid, field instrumentation, auxiliaries, VSD, VSD cooling, VSD Transformer, etc. | The instrumentation index / list shall include: -design and operating parameters for process pressure and temperature, environmental conditions, -measuring domain, -alarm and trip settings, -Ex-zone classification and Ex type certification, - Owner TAG numbering. | | | 16 | | | X | X | |
| 93 | Instrumentation Data-Sheets incl. inspection and calibration certificates | | | | 20 | | | X | | |
| 94 | Instrumentation calculations | | | | 20 | | | X | X | |
| 95 | Data Sheets of anti-surge valves and hot bypass valves shall include valve sizing calculations, valve characteristic curves (CV vs. Stroke), wall thickness calculations. | | X | | 16 | | | X | X | |
| 96 | Data Sheets of pressurization valves; shall include valve sizing calculations, valve characteristic curves (CV vs. Stroke), wall thickness calculations. | | | | 16 | | | X | X | |
| 97 | Material Safety Data Sheets | List of hazardous media, solid, liquid gases, waste (e.g., oil, cooling media) estimated values, specification, volumes. During construction and during operation. | | 10 | 20 | | | X | X | X |
| 98 | HAZOP and HAZID Study Reports for EMCS including HAZOP Sheets | | | | 20 | | Participation on project HAZOP and HAZID study report is required | X | | |
| 99 | SIL Assessment for the EMCS compressor skid | | | | 18 | | | X | | |
| 100 | SIL Calculations for Safety Loops | SIL calculation report shall be performed by qualified third party. | | | 18 | | | X | | |
| 101 | License Handling | as per Annex 1, Attachment 1.17 | | | 18 | | | X | | |
| 102 | TESTS, MANUFACTURER, INSPECTION PROCEDURES AND REPORTS | | | | | | | | | |
| 103 | Inspection and Test Plan (ITP) | see Note 7 | X | 4 | | | | | X | X |
| 104 | Test procedures for all factory acceptance tests | | | | | | 4 weeks before FAT | | | |
| 105 | Weld Procedures | | | | | | To be agreed during Pre Inspection Meeting (PIM) | | | |
| 106 | NDT Procedures | | | | | | To be agreed during Pre Inspection Meeting (PIM) | | | |
| 107 | Heat Treatment and PWHT Procedures | | | | | | To be agreed during Pre Inspection Meeting (PIM) | | | |
| 108 | Material Traceability Procedures | | | | | | To be agreed during Pre Inspection Meeting (PIM) | | | |
| 109 | Positive Material Identification (PMI) Procedures | | | | | | To be agreed during Pre Inspection Meeting (PIM) | | | |
| 110 | Factory Acceptance Test Reports | | | | | | 2 week after FAT | X | X | |
| 111 | Coating and Painting Specifications | | | | | | 4 weeks before start of the manufacturing | | | |
| 112 | Insulation, Lagging and Cladding Specifications | | | | | | 4 weeks before start of the manufacturing | | | |
| 113 | Manufacturers Data Book including test protocols, material certifications, pressure tests, leak tests, material certificates, welders procedures and certificates, pipe/vessel book etc. | | | | | X | To be agreed during Pre Inspection Meeting (PIM) | X | X | |
| 114 | Hazardous Area Documentation (ATEX Documentation) for all equipment in SCOPE OF SUPPLY, including declaration of conformity with 2014/34/EU and all ATEX and Ex equipment certificates | | | | | X | To be agreed during Pre Inspection Meeting (PIM) | X | X | |
| 115 | Pressure Equipment Documentation including declaration of conformity with PED 97/23/EG and pressure equipment certifications | | | | | X | To be agreed during Pre Inspection Meeting (PIM) | X | X | |
| 116 | Unloading, Unpacking and Installation procedures | | | | | | 4 weeks before DELIVERY | | | |
| 117 | Package Commissioning and Start-up Procedures | | | | | | 4 months prior to commissioning | | X | X |
| 118 | SITE Acceptance Test Procedures | This item applies to the 72 hours and the 600 hours tests as specified in Annex 1, chapter 8.2 | | | | | 4 months prior to commissioning | | | |
| 119 | On-Site Performance Test Procedure | This item applies to the Performance Test specified in Annex 1, chapter 8.3.1 | | | | | 6 months prior to commissioning | | | |
| 120 | Availability Test Procedure | This item applies to the Availability Tests specified in Annex 1, chapter 8.3.5 | | | | | 6 weeks prior to test | | | |
| 121 | Installation Certificates, SITE Test Certificates and Reports from Notified Body as per technical specification | Refer to Annex 1 Chapter 9.6 | | | | | 2 week after completion and assessment of 72 hour test | X | X | X |
| 122 | Commissioning and acceptance test Spares List | | X | | | | 4 weeks before delivery to SITE | | | |
| 123 | Spare Parts Basic (typical) for 3 years - Scheduled maintenance | | | | | | 12 weeks after FAT | | | |

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| 124 | MANUALS | | | | | | | | |
| 125 | Training Manuals | Refer to Annex 1 Chapter 12 | | | | 6 weeks prior to training | | | X |
| 126 | Installation, Operation and Maintenance Manuals | | | | X | 6 weeks prior commissioning | X | X | X |
| 127 | Controls System Operations and Instruction Manuals | | | | X | 6 weeks prior commissioning | X | X | X |
| 128 | DOCUMENT PACKAGES | | | | | | | | |
| 129 | Documentation required for SITE acceptance by responsible authorities | | | | X | To be agreed during Pre Commissioning Meeting (PCM) | X | X | X |
| 130 | Documentation marked red 2st stage | | | | | 2 week after successful 72 hour test | | X | |
| 131 | As-built documentation (annex 1, chapter 9.4) | | | | | 4 weeks after successful 72 hour test | X | X | (x) |

NOTES:

Note 1: For all abbreviations please refer to doc. C4G-JI73-ILF-KS007-STR-SPC-800-Specification for Electro Motor & Compressor Set (EMCS).

Note 2: The deadline showed in table in column "Detail Engineering Documentation " is the latest date for the first submittal of documents.

Note 3: The review period of SUPPLIER documents by **Owner** will be maximum 2 weeks.

Note 4: All offer and detailed design documents described in table above shall be submitted in English language.

Note 5: Documentation selected (x) in the column "In Czech Language" in the table above shall be issued in the Czech language as well

Note 6: The documents required for building permit or building notification (DSP) will be used by the **Owner** for the permitting and tendering process

Note 7: The Pre-Inspection Meeting (PMI) shall be scheduled latest 6 weeks after **Contract Signature**.

Note 8: Permitting and detail engineering documentation shall include project specific documentation, documents marked as "Typical" and / or "Preliminary" are not acceptable.

Note 9: Language of As Built Documentation as per Language of respective document.

Note 10: The submission date for the documentation required for the Building Permit or Building Notification (DSP) shall be for the final / approved version