SCOPE OF SUPPLY LIST

| **Description** | **Included** | **Excluded** | **Remarks** |
| --- | --- | --- | --- |
| **Engineering:** |  |  |  |
| Process Engineering | X |  |  |
| Plant Basic Engineering | X |  |  |
| Initial data for civil and HVAC detail engineering | X |  |  |
| **Plant Detail Engineering:** |  |  |  |
| Civil |  | X |  |
| Layout | X |  |  |
| Mechanical equipment | X |  |  |
| Piping | X |  |  |
| Electrical | X |  |  |
| Instrumentation | X |  |  |
| HVAC |  | X |  |
| 3D Design |  | X |  |
| **Procurement:** |  | X |  |
| Civil |  | X |  |
| Mechanical Equipment: |  |  |  |
| Main Mechanical Equipment | X |  |  |
| Auxiliary Mechanical Equipment (incl. in the process) | X |  |  |
| * Special pumps | X |  | see motors |
| * Standard pumps | X |  |  |
| * Fans | X |  | see motors |
| * Conveyors, reclaimers, etc. | X |  |  |
| * Reactors | X |  |  |
| * Tanks and towers | X |  |  |
| * Agitators | X |  |  |
| * Other auxiliary equipment | X |  |  |
| * Platforms and stairs | X |  |  |
| Piping and hand valves | X |  |  |
| Insulation | X |  |  |
| Electrical: |  |  |  |
| High Voltage Equipment | X |  |  |
| Medium Voltage Equipment | X |  |  |
| Low Voltage Equipment: |  |  |  |
| * Frequency converters | X |  |  |
| * MCC | X |  |  |
| * Special motors | X |  |  |
| * Standard motors | X |  |  |
| Cables and Cable trays | X |  |  |
| Instrumentation: |  |  |  |
| Instruments in Connection to Main Machinery | X |  |  |
| Field Instruments | X |  |  |
| Special instruments (e.g. analyzers) | X |  |  |
| Control and on-off Valves | X |  |  |
| DCS programming | X |  |  |
| DCS Hardware |  | X |  |
| Cables and Cable Trays | X |  |  |
| HVAC |  | X |  |

ERECTION

| **Description** | **Included** | **Excluded** | **Remarks** |
| --- | --- | --- | --- |
| Civil |  | X |  |
| Mechanical Equipment: |  |  |  |
| Main Mechanical Equipment | X |  |  |
| Other Mechanical Equipment: |  |  |  |
| * Pumps | X |  |  |
| * Fans | X |  |  |
| * Conveyors, reclaimers, etc. | X |  |  |
| * Reactors | X |  |  |
| * Tanks | X |  |  |
| * Agitators | X |  |  |
| * Other auxiliary equipment | X |  |  |
| * Platforms and stairs | X |  |  |
| Piping and hand valves | X |  |  |
| Insulation | X |  |  |
| Electrical: |  |  |  |
| High Voltage Equipment | X |  |  |
| Medium Voltage Equipment | X |  |  |
| Low Voltage Equipment: |  |  |  |
| * Frequency converters | X |  |  |
| * MCC | X |  |  |
| * Special motors | X |  |  |
| * Cables and Cable Trays | X |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Instrumentation |  |  |  |
| Instruments in Connection to Main Machinery | X |  |  |
| Field Instruments | X |  |  |
| Special instruments (e.g. analyzers) | X |  |  |
| Control and on-off Valves | X |  |  |
| Cables and Cable Trays | X |  |  |
| HVAC |  | X |  |
| Erection supervision | X |  |  |

SERVICES

|  |  |  |  |
| --- | --- | --- | --- |
| **Description** | **Included** | **Excluded** | **Remarks** |
| Hazard and risk analyses, safety related systems | X |  |  |
| DCS fat tests | X |  |  |
| Training | X |  |  |
| Commissioning | X |  |  |
| Start Up | X |  |  |

LOADING, TRANSPORT AND UNLOADING OF EQUIPMENT

|  |  |  |  |
| --- | --- | --- | --- |
| **Description** | **Included** | **Excluded** | **Remarks** |
| Equipment Loading | X |  |  |
| Equipment Packaging, Wrapping & Preparation for Transport | X |  |  |
| Insurance & DDP | X |  |  |
| Equipment Unloading | X |  |  |
| Storage and Custody on Site | X |  |  |