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|--|---|---|------|------------|-----------|---------------|--|----------------------|----------------|
|   | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT | | | | | |  | | |
| | Contract No.: DPIC/98-12 | DOCUMENT TITLE: Document Numbering Procedure | | | | | | Class: A | Rev. D1 |
| | Proj. Code | Area | Unit | Disc. Code | Doc. Type | Material Code | Serial. No | Sheet 1 of 68 | |
| | DPIC9812 | 000 | 000 | PM | PR | 0000 | 0003 | | |

Dehdasht Petrochemical Industry Company




DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT

Document Numbering Procedure

DOCUMENT NUMBER
DPIC9812-000-000-PM-PR-0000-0003




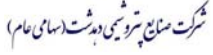
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| D1 | | H.Farhadi | A.Kavyan | H.Farhadi | Farhadi | Mojahed | |
|-----|-------------|-----------|----------|-----------|----------|---------|---------------------|
| D0 | 05-Feb-2020 | H.Farhadi | A.Kavyan | H.Farhadi | Farhadi | Mojahed | Issued for Approval |
| REV | DATE ISSUE | PREPARED | CHECKED | AUTH | NEC | PPI | PURPOSE OF ISSUE |
| | | | | | APPROVED | | |

| | | | | | | | | | |
|--|---|---|------|------------|-----------|---------------|--|----------------------|----------------|
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| 1 | X | | | 31 | | X | | 61 | | X | |
| 2 | X | X | | 32 | | X | | 62 | | X | |
| 3 | X | X | | 33 | | X | | 63 | | X | |
| 4 | X | X | | 34 | | X | | 64 | | X | |
| 5 | X | X | | 35 | | X | | 65 | | X | |
| 6 | X | | | 36 | | X | | 66 | | X | |
| 7 | X | | | 37 | | X | | 67 | | X | |
| 8 | X | X | | 38 | | X | | | | | |
| 9 | X | | | 39 | | X | | | | | |
| 10 | X | | | 40 | | X | | | | | |
| 11 | X | | | 41 | | X | | | | | |
| 12 | X | | | 42 | | X | | | | | |
| 13 | X | | | 43 | | X | | | | | |
| 14 | X | | | 44 | | X | | | | | |
| 15 | | X | | 45 | | X | | | | | |
| 16 | | X | | 46 | | X | | | | | |
| 17 | | X | | 47 | | X | | | | | |
| 18 | | X | | 48 | | X | | | | | |
| 19 | | X | | 49 | | X | | | | | |
| 20 | | X | | 50 | | X | | | | | |
| 21 | | X | | 51 | | X | | | | | |
| 22 | | X | | 52 | | X | | | | | |
| 23 | | X | | 53 | | X | | | | | |
| 24 | | X | | 54 | | X | | | | | |
| 25 | | X | | 55 | | X | | | | | |
| 26 | | X | | 56 | | X | | | | | |
| 27 | | X | | 57 | | X | | | | | |
| 28 | | X | | 58 | | X | | | | | |
| 29 | | X | | 59 | | X | | | | | |
| 30 | | X | | 60 | | X | | | | | |

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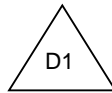
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2. Responsibilities

3. Document Numbering Format

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- Unit No.
- Discipline Code
- Document Type
- Material Code
- Serial Number





4. Sheet and Revision Number

5. EQUIPMENT/MOTOR Numbering

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| | | | | | | | | |
|---|---|------|------|------------|-----------|---------------|--|--------------------------------|
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| | DPIC9812 | 000 | 000 | PM | PR | 0000 | 0003 | |

1 Scope

This Project Procedure specifically prescribes engineering document numbering system.

The present procedure applies to both OWNER and NEC identification code, where there is no OWNER document numbering system in this project and all documents will have only one unique code according to this procedure.

Consequently the heading table will contain one document identification code.

2 Responsibilities

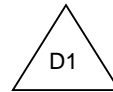
All the engineering and managerial departments are responsible for producing documents as per the procedure that will be described in this instruction. However, final checking of prepared documents by document control and / or project engineering divisions is a requirement to make sure of their compliance with whatever that is asked for in this document.

3 Document Numbering Format

The Identification Code has the purpose to ensure an easy and unambiguous identification of each document and shall therefore be indicated, as per officially template together with the Title, in the Heading Table.



Each document purpose and date of issue, as well as the initials of the personnel involved in the process issue shall be indicated in issue table drawn on the first page.

The code is made up of 6 alphanumeric fields, as indicated here below:



| 1 | 2 | 3 | 4 | 5 | 8 | 7 |
|---------------|----------|----------|-------------|----------------|---------------|------------|
| Project Name. | Area No. | Unit No. | Discipline. | Document Type. | Material Code | Serial No. |
| DPIC98-12 | *** | ** | ** | *** | **** | **** |

Where:

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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- **Project Name.**

Project Name is DPIC9812

- **Area No.**

-

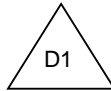
These 3 numbering digit code is allocated to the Project Units and specified as follows:

000 General (for project management procedure including E, P and C)

001 Process

002 Utility & Offsite

- **Unit No.**



000 – General (for general Specifications, procedures, MR's, TBE's , ...)

100 - Catalyst and Co-Catalyst Handling and Dosing, Polymerization

200 - Powder Separation, Drying, Purification, Transport and Storage

300 - Hexane, Butene-1, Wax Recovery/Purification and Off-Gas system

400 – Hexane/Soda/Butene Tank Farm, Unloading

500 - Additivities, Extrusion, Pelletizing, Pneumatic Haulage, Homogenization and Storage



600 - Refrigeration Unit, Jacket Water System, Steam and Condensate System

700 - Bagging and Warehouse

810 - Let down Station Unit (Natural Gas and Ethylene)

820- Water Treatment

830- Waste Water Treatment




|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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| Class: A | Rev. D1 | | | | | | | | | | | | | | | | | | | |
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- 840- Cooling Tower
- 850- Air Separation & Generation Unit and Nitrogen Generation
- 860- Emergency Diesel Generation Unit
- 870- Steam Generation Unit
- 880- Hydrogen Generation Unit
- 888- Buildings /Shelters/Laboratory/Fire Station/Evaporation Ponds/Warehouse/etc
- 890- Storage and Unloading Station
- 900- Flare (As per Bassel BFD)
- 910- Fire Fighting System
- 990- OSBL Units (If Any)
- 999- Interconnecting Pipe Racks, Sleepers, Civil and Piping Distribution Systems

- **Discipline**

This 2 character code shows abbreviations letters of each discipline that has generated the document. The abbreviations are as follows (they may be added as required):

| | |
|-----------|---|
| PR | Process Engineering |
| ME | Mechanical Engineering |
| EL | Electrical Engineering |
| CV | Civil Engineering |
| AR | Architectural Engineering |
| ST | Structural Engineering |
| HS | Health, Safety, Environment Engineering |




| | | | | | | | | | |
|--|---|---|------------|------------|-----------|---------------|-------------|----------------------|----------------|
|   | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  شرکت صنایع پتروشیمی خلیج فارس Persian Gulf Petrochemical Industries Co PGPIC شرکت صنایع پتروشیمی دهشت (سهامی عام) | | | | | | | |
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| | |
|-----------|---------------------------------------|
| PI | Piping Engineering |
| HV | HVAC Engineering |
| CI | Control & Instrumentation Engineering |
| PQ | Procurement |
| CC | Cost Control |
| PL | Project Planning & Control |
| PM | Project Management |
| QH | Project Quality Management |
| IT | Information Technology |
| CS | Construction |

• **Document Type**

The type of documents will also be shown with abbreviated letters in 3 characters as follows:

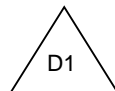
| | |
|------------|---|
| MR | Material Requisition (*) |
| SPC | Material / Equipment Specification (*) |
| POR | Purchase Order (*) |
| JSS | Job Specification for Supply |
| JSD | Job Specification for Design |
| JSC | Job / Material Specification for Construction |
| MTO | Material Take-off |
| LST | List / Schedule |
| PFD | PFD, UFD, ... |
| PID | P&ID, Utility & Instrument Diagram, ... |



| | | | | | | | | | |
|--|---|------|------|------------|-----------|---------------|---|---------------|---------|
|   | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT | | | | | |  شرکت صنایع پتروشیمی خلیج فارس Persian Gulf Petrochemical Industries Co PGPIC شرکت صنایع پتروشیمی دهشت (سهامی عام) | | |
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| | |
|------------|---|
| DWG | Drawing |
| DIA | Diagram |
| CLN | Calculation Note |
| STD | Standard Drawing / Design |
| PR | Procedure |
| PLN | Planning |
| CHO | Change Order |
| DS | Data Sheet |
| RP | Report |
| CNT | Contract |
| MSC | Material Specification for Construction |
| STC | Construction Standard |
| TBT | Technical Bid Evaluation |
| BOQ | Bill of Quantity |
| ISO | Isometric |
| PCL | Piping Class |
| QC | Quality Control |
| CBT | Commercial Bid Evaluation |
| SHD | Shop Drawing |

• **Material Code**

See Attachment #1



| | | | | | | | | | |
|---|---|---|------|------------|-----------|---------------|------------|--|-----------------|
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- **Serial Number** 

This is a 4 digit code starting from 0001 and ending with 9999.

4 Sheet and Revision Number

Sheet Number shall be in below format:

... Of Total

The Revision Number which shows the changes/corrections/amendments of a document/drawing is as hereunder mentioned steps:

Basic Engineering:



First Issue: "B0"

Next Issues: "B1, B2..."

Detail Engineering:

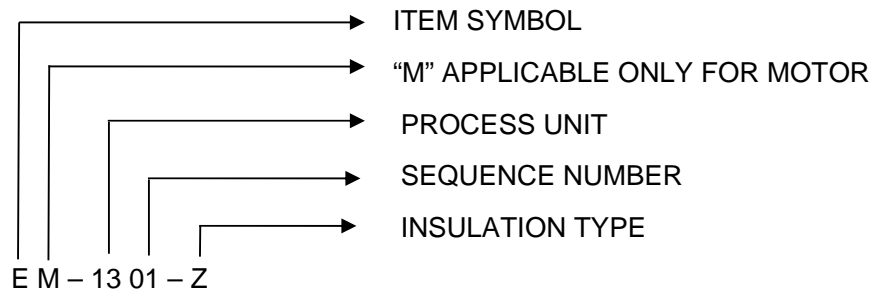
First Issue: "D0"

Next Issues: "D1, D2 ..."

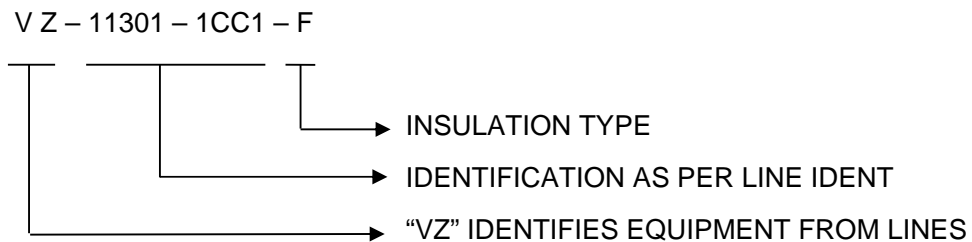
| | | | | | | | | | | | | | | | | | | | | |
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5 EQUIPMENT/MOTOR Numbering



Equipment Item Number:



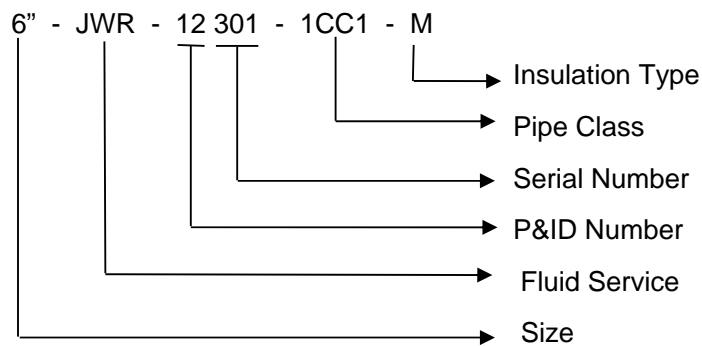
Supplementary Identification Used only when item is provided with appurtenances:



For Equipment Coding System, See legend.



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6 Line Numbering



7 Instrument Numbering

For instrument tags, P&ID Legend shall be followed.




| | | | | | | | | | | | | | | | | | | | | |
|---|--|--|------------|-----------|---------------|------------|---------------|------------|----------|-----|-----|----|----|------|------|---|-----------------|----------------|-----------------------|--|
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8 Vendor Documents Numbering

Vendor document numbering system shall be applied apart from vendor's own document numbering system, which means one document may be provided with two document numbers, one by this requirement as below numbering system and another by vendor's own document numbering system.



Vendor's documents shall be numbered according to the following pattern:

| | | | |
|--|-----------------------|----------------------------------|------------------------------------|
| | DPIC9812 - XXX | | VD - XXXX - XX - XXX - 0001 |
| Project No. | | Area No. | |
| Abbreviation for "Vendor Document" | | Last 4 digits of PO . No. | |
| Discipline (Note 2- This is the same as the discipline name of MR. Numbering) | | Document Type | |
| Serial Number (Progressive Drawing Number (0001 and up)) | | | |

|   | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  شرکت صنایع پتروشیمی خلیج فارس Persian Gulf Petrochemical Industries Co PGPIC شرکت صنایع پتروشیمی دهشت (سهامی عام) | | | | | | | | | | | | | | | | | | |
|--|--|---|------------|-----------|---------------|------------|---------------|------------|----------|-----|-----|----|----|------|------|---|-----------------|----------------|-----------------------|--|
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Attachment # 1

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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| Class: A | Rev. D1 | | | | | | | | | | | | | | | | | | | |
| Sheet 14 of 68 | | | | | | | | | | | | | | | | | | | | |

The 4 digit material code is used for identification of all types of equipment/materials, and for numbering the technical documentation.




For piping, instrument and electrical materials, some attributes (2 digit suffix) are added for use when additional breakdown is needed. They will not be utilized in document numbering.

- 0100 FIRED EQUIPMENT
- 0200 WATER TREATMENT
- 0300 COOLING TOWERS
- 0400 REACTORS
- 0500 COLUMNS
- 0600 HEAT EXCHANGERS
- 0700 AIR COOLERS
- 0800 DRUMS AND OTHER VESSELS
- 0900 PUMPS
- 1000 COMPRESSORS
- 1100 DRIVERS AND GEARS
- 1300 A/G PIPING
- 1400 SITE PREPARATION AND UNDERGROUND SYSTEMS
- 1500 INSTRUMENTS AND CONTROL SYSTEMS
- 1600 ELECTRICAL EQUIPMENT
- 1700 CONCRETE WORKS AND FIRE PROOFING
- 1800 STEEL STRUCTURES
- 1900 SAFETY
- 2000 BUILDINGS AND MODULES

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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- 2100 LABORATORY / WORKSHOP EQUIPMENT
- 2200 INSULATION
- 2300 PAINTING
- 2400 LUBRICANTS
- 2500 STORAGE TANKS AND SILOS

- 2600 CHEMICAL, CATALYSTS, FUEL AND GREASE
- 2700 TELECOM
- 3400 HEATING, VENTILATION, AIR CONDITIONING
- 3500 FLOW LINE / RISER SPECIFIC EQUIPMENT / MATERIAL
- 3600 OFFSHORE SPECIFIC EQUIPMENT AND MATERIAL
- 3700 OPERATION MAINTENANCE WORKSHOP
- 3800 OFFSHORE MOORING / TOWING / FENDERING
- 3900 UMBILICAL AND FLEXIBLE MATERIAL
- 4000 HANDLING AND PACKING
- 4100 PACKAGED PROCESS UNITS AND GENERAL PACKAGES
- 4200 MECHANICAL SEPARATION AND MIXING
- 4300 SOLID PROCESSING FACILITIES
- 6200 HEALTH, SAFETY & ENVIRONMENT (HSE)
- 6300 WELDING / BURNING EQUIPMENT
- 6700 TRANSPORT AND TRANSIT
- 8000 CONSTRUCTION EQUIPMENT AND COMMODITIES
- 8100 LIVING QUARTERS, CANTEENS AND CAMPS
- 8200 TEMPORARY JOBSITE FACILITIES

| | | | | | | | | | |
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0100 FIRED EQUIPMENT

0110 FIRED HEATERS

- 0111 Cement rotary kiln
- 0112 Preheater / Calcination heater
- 0113 Steam reforming furnaces
- 0114 Gas reducing heaters
- 0115 Electrical furnaces
- 0116 Steam superheaters
- 0117 Naphta cracking furnaces
- 0118 Ethane cracking furnaces
- 0119 Other heaters I furnaces
 - 01. Thermal cracking furnaces
 - 02. Visbreaking heaters
 - 03. Gasoil cracking furnaces
 - 04. SRU reaction furnaces
 - 05. Reducing gas generators
 - 06. Hot air generators
 - 07. Glycol regenerators
 - 08. Other types

0120 FURNACE INTERNAL PIPING COMPONENTS

- 0121 Catalyst tubes and outlet sub-header assemblies
- 0122 Radiant coil assemblies
- 0123 Convection coil and x-over piping materials
- 0124 Venturi for x-over systems
- 0125 Tubesheets and brackets

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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0126 Finning and studding

0127 Convection coil and x-over piping fabrication

0128 Refractory lined outlet header

0129 Spring supports and accessories

0130 FURNACE COMPONENTS (EXCL. PIPING)

0131 Furnace structural steel

0132 Refractory lining

0133 Peepholes, access and explosion doors

0134 Protrusion seals

0135 Duct expansion joints

0136 Duct dampers and slide gates

0137 Cracked gas and decoke valve

0138 Quench oil fitting

0139 Mixing nozzle

0140 INCINERATION SYSTEM

0141 Gaseous wastes

0142 Liquid wastes

0143 Solid wastes

0144 Mixed wastes

0146 Flue gas cleaning system




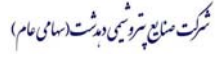
0147 Electrostatic precipitator

0148 Marine combined waste

0150 STEAM BOILERS

0151 Water-tube boilers (field assembled)

0152 Water-tube boilers (package)

| | | | | | | | | | |
|--|---|------|------|------------|-----------|---------------|---|----------------|---------|
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| | DPIC9812 | 000 | 000 | PM | PR | 0000 | 0003 | Sheet 18 of 68 | |

0153 Fire-tube boilers

0154 Quench system

0160 WASTE HEAT BOILERS

0161 Water-tube type (with auxiliary burners)

0162 Water-tube type (without auxiliary burners)

0163 Fire-tube (with auxiliary burners)

0164 Fire-tube (without auxiliary burners)

0165 Hot oil boilers

0166 CO boilers

0167 Sulphur plant boilers

0168 Process gas waste heat (PGWH) systems

0170 STACKS

0171 Guyed steel stacks

0172 Self-supporting steel stacks

0173 Concrete stacks

0174 Concrete stacks with internal ducts

0180 FLARES

0181 Self-supported elevated flares

0182 Derrick supported elevated flares




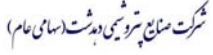
0183 Guyed elevated flares

0184 Flare tip & accessories

0185 Sonic flares

0186 Ground flares

0187 Burn-pit burners

|   | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |   | | | | | | | | | | | | | | | | | | |
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| Class: A | Rev. D1 | | | | | | | | | | | | | | | | | | | |
| Sheet 19 of 68 | | | | | | | | | | | | | | | | | | | | |

0190 MISCELLANEOUS EQUIPMENT & SYSTEM

- 0191 Burners
- 0192 Gas or electric igniters
- 0193 Recuperative air heaters
- 0194 Regenerative air heaters
- 0195 Air preheaters
- 0196 Sootblowers
- 0197 Skin thermocouples
- 0198 Flame detectors
- 0199 Burner management system



0200 WATER TREATMENT

0210 INDUSTRIAL WATER UNITS

- 0211 Water clarification
- 0212 Water filtration
- 0213 Ion exchange
- 0214 Boiler water conditioning
- 0215 Thermal de-aerator
- 0216 Reverse osmosis
- 0217 Miscellaneous

0220 SEWAGE UNITS

- 0221 Physical treatment

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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| Class: A | Rev. D1 | | | | | | | | | | | | | | | | | | | |
| Sheet 20 of 68 | | | | | | | | | | | | | | | | | | | | |

0222 Physico-chemical treatment

0223 Biological treatment

0224 Sludge treatment

0225 Miscellaneous

0230 DRINKING WATER UNITS

0240 SEA WATER DESALINATION PLANTS

0250 COOLING CIRCUIT CONDITIONING

0260 CHLORINATION UNITS

0261 Electrochlorination units

0262 Gas / liquid chlorination units

0270 LIQUID EFFLUENTS TREATING UNITS

0271 Basins

0272 Basin accessories

0273 Gravity separators

0274 Flight scraper

0275 Plate packs

0276 Flotator

0277 Aeration system



0278 Sludge treatment facilities

0279 Thickener

0280 WATER INTAKE EQUIPMENT

0281 Stop logs, sluice gates

0282 Trash racks, screening systems

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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| Sheet 21 of 68 | | | | | | | | | | | | | | | | | | | | |

0290 MISCELLANEOUS

0300 COOLING TOWERS

0310 MECHANICAL DRAFT WET COOLING TOWERS

0311 Mechanical draft wet cooling towers concrete structure

0312 Mechanical draft wet cooling towers wood structure

0320 NATURAL DRAFT WET COOLING TOWERS

0330 NATURAL DRAFT DRY COOLING TOWERS

0340 MISCELLANEOUS FOR COOLING TOWERS

0400 REACTORS

0410 REACTORS

0411 Shop assembled reactors

0412 Reactors delivered in several sections

0413 Reactors entirely assembled on site

0470 INTERNALS

0480 INERT PACKING (BALLS, RINGS, ETC ...)

0490 INTERNAL GUNITING

0500 COLUMNS



0510 COLUMNS

0511 Shop assembled columns

0512 Columns delivered in several sections

0513 Columns entirely assembled on site

0570 TRAYS & INTERNALS

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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| Class: A | Rev. D1 | | | | | | | | | | | | | | | | | | | |
| Sheet 22 of 68 | | | | | | | | | | | | | | | | | | | | |

0580 INERT PACKING (BALLS, RINGS, ETC ...)

0590 INTERNAL GUNITING & CHEMICAL COATING

0600 HEAT EXCHANGERS

0610 SHELL & TUBE EXCHANGERS

0620 TUBULAR TURBINE CONDENSERS

0630 DOUBLE PIPE EXCHANGERS

0640 TANK HEATERS

0650 SPOOL WOUND HEAT EXCHANGERS

0660 PLATE TYPE HEAT EXCHANGERS

0661 Plates & frames heat exchangers

0662 Brazed plate fin heat exchangers

0663 Plate type heat exchangers

0670 SPECIAL EXCHANGERS

0671 Lamella heat exchangers

0672 Spiral exchangers

0673 Graphite exchangers

0674 Air or gas heaters





0690 OTHER EXCHANGERS

(CEMENT PLANTS, SUGAR PLANTS, EVAPORATORS, COOKERS...)

0691 Conditioning tower

0692 Cyclone preheaters

0693 Grate cooler

| | | | | | | | | | |
|--|---|-------------|-------------|-------------------|------------------|----------------------|-------------------|---|-----------------|
|   | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT | | | | | | |   | |
| | DOCUMENT TITLE: Document Numbering Procedure | | | | | | | | Class: A |
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0700 AIR COOLERS

0710 AIR COOLERS

0720 TURBINE AIR CONDENSERS

0730 AIR-AIR SPECIAL EXCHANGERS

0800 DRUMS AND OTHER VESSELS

0810 METALLIC DRUMS

(MOLECULAR SIEVES & STATIC DRYERS INCLUDED)

0811 Shop-assembled drums

0812 Drums delivered in several sections

0813 Atmospheric drums

0814 Petroleum products desalting drums

0820 PLASTIC DRUMS

0830 SPECIAL FABRICATED ITEMS

0831 Special fabricated welded parts for connection to piping or vessels
(hoppers, channels ...)

0832 Fabricated piping (transfer lines, special piping, ducts, chutes...)

0833 Fabricated dampers




0834 Fabricated flap dampers

0835 Bypass

0836 Silencers

0839 Other special fabricated items

0840 FILTERS AND SEPARATORS

| | | | | | | | | | |
|--|---|---|------|------------|-----------|---------------|------------|--|-----------------|
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0841 Filters (cartridge, basket, candle, etc ...)

0842 Cyclones

0843 Scrubbers

0844 Coalescers

0845 Deaerators & degassifiers

0846 Self cleaning filters

0847 Precot filters

0848 Absorbent bed filters (sand, active. carbon ...)

0849 Hydrocyclones

0850 STATIC VACUUM UNIT AND EJECTORS

0851 Vacuum units (multistage ejectors with intercondensers)

0852 Simple ejectors

0853 Steam desuperheaters

0870 INTERNALS

0880 INERT PACKING (BALLS, RINGS, ETC ...)

0890 INTERNAL COATING (REFRACTORY, GUNITING, CHEMICAL)

0900 PUMPS





0910 CENTRIFUGAL PUMPS

0911 Propeller pumps

0912 Other centrifugal pumps

0920 RECIPROCATING PUMPS

0930 ROTARY PUMPS

| | | | | | | | | | |
|--|---|-------------|-------------|-------------------|------------------|----------------------|-------------------|---|-----------------|
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0931 Screw pumps

0932 Gear pumps

0933 Other rotary pumps

0940 PROPORTIONING PUMPS

0950 MECHANICAL SEALS & FLUSHING CONSOLES

0960 SPECIAL PUMPS

1000 COMPRESSORS

1010 CENTRIFUGAL AND AXIAL COMPRESSORS

1011 Centrifugal compressors

1012 Axial compressors

1013 Integrally geared compressors

1020 RECIPROCATING COMPRESSORS

1021 Diaphragm compressors

1022 Hypercompressors

1023 Other reciprocating compressors

1030 ROTARY AND SPECIAL COMPRESSORS

1031 Screw compressors

1032 Other rotary and special compressors



1040 BLOWERS & FANS

1050 VACUUM PUMPS & COMPRESSORS

1060 ACCESSORIES FOR COMPRESSORS

1061 Lube and/or seal oil systems

1100 DRIVERS AND GEARS

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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1110 STEAM TURBINES

- 1111 General purpose steam turbines
- 1112 Special purpose steam turbines

1120 GAS TURBINES

1130 EXPANSION OR RECOVERY TURBINES

1140 DIESEL OR GAS ENGINES

1150 OTHER DRIVERS

1160 GEARS

1170 COUPLINGS

1180 PROPULSION SYSTEMS

- 1181 Marine vessel thrusters
- 1182 Rov thrusters
- 1183 Propellers and associated equipment
- 1184 Other propulsion systems

1300 A/G PIPING

(See code 0832 for piping > 48")

(Code 1 30x — for x see (1) — can be used for requisition numbering to group miscellaneous parts per material grade)

1310 HAND OPERATED VALVES SEE (1) & (2)

1320 PIPES (ALL TYPES & DIAMETERS) SEE (1) & (3)





1330 FITTINGS DIA. > 2" SEE (1)

1340 FITTINGS DIA. <2" SEE (1) & (4)

1350 FLANGES SEE (1)

1360 GASKETS

1370 BOLTS

| | | | | | | | | | |
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1380 SUPPORTS



- 1381 Material for standard supports
- 1382 Cryogenic wedges
- 1383 Spring hangers
- 1384 Sliding plates
- 1385 Rigits struts
- 1386 Snubbers

1390 MISCELLANEOUS

- 1391 Expansion joints
- 1392 Steam traps & manifolds
- 1393 Spacers, blanks, drip rings
- 1394 Hoses & hoses connections
- 1395 Strainers, sight glasses
- 1397 Chains & padlocks
- 1398 Flame arrestors
- 1399 Other

(1) The fourth digit of the code shows the codification per material grade. This codification is the following:



- 0** General
- 1** Carbon Steel, Killed Carbon Steel, Very Low Alloy Steel
- 2** Chromium Steel (1.25 -2.25 - 4/6 Cr)
- 3** Nickel Steel (3.5 - 5% - 11% Ni)
- 4** Stainless Steel (Low carbon, conventional, refractory steels)
- 5** 9% Cr and 25/25 Cr-Mo Steels, Very high alloy steels
- 6** Aluminum & Aluminum Alloys

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- 7 Copper & Copper Alloys
- 8 Plastic
- 9 Cast Iron, Galvanized, Lined Steel

(2) Attributes for Valves:

- 00 General
- 01 Forged valves (gate, globe, check)
- 02 Casted valves (gate, globe, check)
- 03 Butterfly valves (liner seat for utility)
- 04 Butterfly valves (high performance)
- 05 Plug valves (lubricated)
- 06 Plug valves (soft sleeve)
- 07 Ball valves (soft seat)
- 08 Ball valves (metal seated)
- 09 Bellow valves
- 10 Knife & Slide valves
- 11 Diaphragm valves
- 12 Pinche valves
- 13 Special Check valves
- 14 Dual Plate Check valves
- 15 Sampling valves
- 16 Flush bottom valves
- 17 Piston valves
- 18 Blow off valves
- 19 Diverter valves
- 20 Through conduit valves

| | | | | | | | | | |
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- 21 Alkylation service valves
- 22 Double disk valves
- 23 Cryogenic service valves
- 24 Choke valves
- 28 Polymer valves
- 29 Three-way valves

(3) Attributes for Pipes:

- 00 General
- 01 Seamless pipe
- 02 Welded pipe (EFW or SAW)
- 03 Welded pipe (ERW)
- 04 Welded pipe Spiral type
- 05 Preisolated pipe
- 06 Tubing



(4) Attributes for Fittings dia. < 2”:

- 00 General
- 01 Forged fittings
- 02 Compression fittings

1400 SITE PREPARATION AND UNDERGROUND SYSTEMS

1430 PILING

- 1431 Driven cast in situ piles
- 1432 Driven pre-cast piles
- 1433 Driven steel pipes
- 1434 Drilled piles
- 1435 Gravel/sand drains piles

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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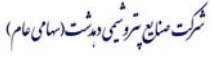
1470 UNDERGROUND PIPING MATERIALS

- 1471 Carbon steel
- 1472 Lined steel
- 1473 Concrete
- 1474 Stainless steel
- 1475 Fiber cement
- 1476 Ceramic gres
- 1477 Bonna type (steel cylinder reinforced concrete pipe)
- 1478 Plastic (PVC, FRP, PEHD, GRP)
- 1479 RTRP

1500 INSTRUMENTS AND CONTROL SYSTEMS

1510 CONTROL SYSTEMS

- 1511 Control systems
 - 01. Distributed control system (DCS)/Field Control System (FCS)
 - 02. Programmable logic controller (PLC)
 - 10. DCS/FCS operator desk mechanical assembly
 - 11. DCS/IFCS operator workstation
 - 12. DCS/FCS system cabinet with computer
 - 13. DCS control cabinet
 - 14. DCS/FCS engineering console
 - 15. PC I Multi-purpose computer
 - 16. DCS/FCS I/O cabinet
 - 17. DCS/FCS marshalling cabinet

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- 18.DCS/FCS interface-network extender
- 19. Batch sequential controller
- 20. DCS/IFCS network control cabinet
- 21.DCS/FCS printer, video-copier
- 41 DCS/FCS processing card
- 42. DCS/FCS network equipment
- 43.DCS/FCS I/O cards
- 44 DCS I/O converters, isolators, IS modules
- 45 DCS system cables
- 46-DCS/FCS Asset Management System (AMS)
- 47-DCS/FCS Report & Historical Workstation
- 48-OPC Workstation
- 49-DCS/FCS Relay Modules

1512 Supervision

- 01. Supervision computer

1513 Building management



- 01. Building management systems
- 02. Clock synchronization

1514 Package control

- 01. Package unit control system/cabinet

1515 Security & safety systems

- 01. Emergency shut down system (ESD)
- 02. Fire and gas system/cabinet (F&G)
- 03. Machine monitoring system
- 04. Anti-surge system

| | | | | | | | | | |
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- 05. Compressor control system
- 06. Electronic governor speed controller
- 07. MOV control system
- 08. Terminal management system
- 09. Machinery performance monitoring system
- 11. Burner management system/cabinet
- 12. High integrity protection system (HIPS)
- 13. Steam/gas turbine control system
- 21. ESD processing cards
- 22. ESD network equipment
- 23. ESD I/O cards
- 24. ESD I/O converters, isolators, IS modules
- 25. ESD system cables
- 51. F&G processing cards
- 52. F&G network equipment
- 53. F&G I/O cards
- 54. F&G I/O converters, isolators, IS modules
- 55. F&G system cables
- 56- ESD system cabinet
- 57- ESD marshalling cabinet

1516 Tank gauging systems

- 01. Tank gauging system

1518 Management systems

- 01. Management information system (MIS)
- 02. Training simulator

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- 03. Advanced control system
- 04. Software development

1520 EQUIPMENT IN CONVENTIONAL CONTROL ROOM

1521 Control panel and desk, cabinet, mimic panels

- 01. Instrument panel board
- 02. Conventional console desk
- 03. Auxiliary instrument cabinet
- 04. Power supply distribution cabinet
- 05. Analyzer controller cabinet
- 06. Converters & barriers cabinet
- 07. ESD-Interlock relay cabinet
- 08. Electric interface relay cabinet
- 09. Optic fiber patch panel

1522 Instrument, converter, function relay



- 01. Miscellaneous electronic module
- 02. Multi-pen recorder
- 03. Multi-temperature recorder
- 04. Galvanic isolation barrier
- 05. Zener barrier

1523 Alarm management

- 01. Sequence of event system/Recorder

1530 TELECOM

1531 Security systems



|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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- 01. CCTV system
- 02. Access control system 1532 Radio systems
- 01. Conventional trunk radio system
- 02. Aeronautical VHF system
- 03. Non directional beacon (NDB) radio system
- 04. Satellite system
- 05. Radar system
- 06. Voice recorder
- 07. Marine VHF radio system
- 11. Immarsat system
- 12. Point to point link system (microwave)
- 13. Trans-horizon link system
- 14. Point to multi-point link system
- 15. Marine & aeronautical racon system
- 16. MF/HF radio system
- 21. Radio telecom tower
- 22. Global Distress Marine and Safety System (GDMSS)

1540 IN LINE INSTRUMENT

1541 Control valves

- 01. Control valve
- 02. Severe service control valve
- 03. Butterfly control valve
- 04. Ball or plug control valve
- 05. Anti-surge valve
- 07. Angle 2-way control valve

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- 11. 3-way control valve
- 91. Position transmitter
- 92. E/P positioner
- 93. Smart positioner
- 94. Pneumatic positioner
- 95. FF positioner
- 96. Globe control valve
- 97. Rotary control valve

1542 Particular control valves

- 01. In line solenoid valve
- 02. Desuperheater
- 03. Self actuated valve
- 04. Blanketing system
- 05. Pipeline self actuated block valve

1543 Automatic valves

- 01. Pneumatic on/off ball or plug valve
- 02. Pneumatic on/off gate valve
- 03. Pneumatic on/off globe valve
- 04. Pneumatic on/off butterfly valve
- 11. Electric ball valve
- 12. Electric gate valve
- 13. Electric globe valve
- 14. Electric butterfly valve
- 21. Hydraulic ball valve
- 22. Hydraulic gate valve

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- 23. Hydraulic globe valve
- 24. Hydraulic butterfly valve
- 31. Deluge valve
- 32. Diverting Valve
- 33. Piston and Slide type valve

1544 Actuators




- 01. Hydraulic unit
- 11. Pneumatic actuator
- 12. Electric actuator
- 13. Hydraulic actuator

1545 Safety material

- 01. Safety relief valve
- 02. Piloted safety relief valve
- 03. Rupture disk, burst disk
- 04. Vent valve
- 05. Flame arrestor
- 06. Thermal relief valve

1546 Differential pressure elements

- 01. Restriction orifice
- 02. Orifice plate
- 03. Retractable orifice
- 04. Wedge flow element
- 05. Venturi
- 06. Flow nozzle

| | | | | | | | | | |
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- 07. Pitot tube
- 08. Annubar
- 21. Miscellaneous flow element

1547 Flow Measurement instruments

- 01. Vortex meter
- 02. Rotameter
- 03. Turbine meter
- 04. PD meter
- 05. Electromagnetic flow meter
- 06. Mass flow meter Coriolis effect
- 07. Ultrasonic flow meter
- 08. Thermal mass flow meter
- 10. Portable flow meter
- 15. Insertion turbine meter



1548 Special flow instruments

- 02. Target flow meter
- 03. Multiphase flow meter

1550 LOCAL INSTRUMENT

1552 Level instruments



- 01. Displacement level transmitter
- 02. Float level transmitter
- 03. Capacitive level transmitter
- 04. Conductive level transmitter
- 05. Ultrasonic level transmitter

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- 06. Gamma ray level transmitter
- 07. Microwave level transmitter
- 10. Displacement pneumatic transmitter
- 11. Vibrating fork level switch
- 12. Rotating paddle switch
- 13. Capacitive level switch
- 14. Conductive level switch
- 15. Ultrasonic level switch
- 16. Gamma ray level switch
- 17. Microwave level switch
- 21. Level glass
- 22. Magnetic level gauge
- 23. Float level indicator
- 24. Level tape (with tank)
- 35. Bi-Color level gauge
- 37. Conductivity level gauge
- 41. Tank gauging transmitter
- 42. Radar tank gauging transmitter
- 43. Level profiler

1553 Pressure instruments

- 01. Electronic pressure transmitter
- 02. Electronic differential pressure transmitter (flow)

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- 03. Electronic differential pressure transmitter (level)
- 04. Electronic differential pressure transmitter (pressure)
- 05. Absolute pressure transmitter
- 11. Pneumatic pressure transmitter
- 12. Pneumatic differential pressure transmitter (flow, level, pressure)
- 21. Pressure switch
- 22. Differential pressure switch
- 31. Pressure gauge
- 32. Differential pressure gauge
- 33. Draft gauge

1554 Temperature instruments

- 01. Local temperature converter (Ohm/I, mV/I)
- 02. Thermocouple/RTD with well
- 03. Thermowell
- 04. Optic pyrometer
- 05. Pneumatic bulb temperature transmitter
- 06. Multiple thermocouple /RTD
- 07. Temperature mV/I converter
- 11. Thermometer with well
- 21. Temperature switch

1555 Local instruments

- 01. Local controller
- 02. Local recorder
- 03. Local milliammeter



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1557 Local instruments accessories

- 01. Solenoid valve (instrument air)
- 02. Air set
- 03. Rotameter (for flushing or building)
- 04. Limit switch
- 11. IIP converter
- 12. P/I converter
- 21. Weight transmitter

1558 Instrument on equipment

- 03. Speed transmitter
- 04. Acceleration transmitter
- 05. Vibration transmitter
- 06. Proximity detectors
- 07. Axial displacement transmitter
- 08. Temperature transmitter for rotating machine
- 09. Position transmitter
- 13. Speed switch
- 15. Vibration switch
- 17. Axial displacement switch
- 18. Temperature switch for rotating machine
- 19. Position switch
- 23. Speed indicator
- 31. Burner flame detector

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1560 ANALYSER

1561 Chromatograph

- 01. Process gas chromatograph
- 02. GC transmitter type

1562 Specific component analyzers

- 01. TCD process analyzer
- 02. CO/CO2 analyzer (IR)
- 03. SO2 process analyzer (UV)
- 04. Moisture analyzer
- 11. O2 process analyzer
- 12. Portable O2 analyzer
- 31. SOx analyzer
- 32. H2S/SO2 ratio analyzer
- 33. H2S in gas analyzer
- 34. Sulphur analyzer
- 35. Process chlorine analyzer
- 36. Portable chlorine analyzer
- 51. NOx/ISOx analyzer
- 52. Hydrocarbon analyzer (infrared based)
- 53. Mass spectrometer
- 54. X-ray spectroscope
- 55. Infrared gas analyzer (FTIR)



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1563 Specific characteristic analyzers

- 01. ASTM distillator
- 02. RVP/KVP analyzer
- 03. Viscosity analyzer
- 04. Density analyzer
- 05. Cloud point analyzer
- 06. Flash point analyzer
- 07. Pour point analyzer
- 08. Refractometer
- 09. CFR motor
- 10. Calorimeter
- 11. NIR analyzer
- 12. Colour analyzer
- 13. Salt in crude analyzer
- 14. Specific gravity analyzer
- 15. Melting point analyzer
- 16. Total carbon analyzer (BOC/TOC)
- 17. End point analyzer
- 18. Freezing point analyzer
- 19. CFPP analyzer
- 20. Melt flow index

1564 Automatic analyzers

- 01. H2S in water analyzer
- 02. Silice meter
- 03. NH3 in water analyzer

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- 04. Conductivity analyzer
- 05. Ph meter
- 06. Dissolved oxygen meter
- 07. Oil traces in water analyzer
- 08. Water in oil analyzer
- 09. NaOH in water analyzer
- 10. Chlorine in water analyzer

1565 "In situ" analyzers

- 01. Oxygen flue gas analyzer
- 02. Opacity analyzer
- 03. Air pollution metering station
- 04. Powder measuring system
- 21. Smoke density analyzer
- 31. Stack effluent monitoring system

1566 Fire and gas devices

- 01. Gas detector
- 02. Flame detector
- 03. Smoke detector
- 04. Manual alarm call point
- 05. Beacon / flashing light
- 06. Horn
- 07. Buzzer
- 08. Siren
- 09. Heat detector
- 10. VESDA system

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- 11.Fusibleplug
- 21. Thermosensible cable

1568 Sampling system

- 01. Sampling system
- 02. Fast loop pump and filters
- 03. Spent sample apparatus
- 04. Sample recovery system
- 05. Sampling apparatus
- 06. Calibration bottle
- 07. Chemicals set




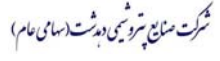
1570 BULK MATERIAL

1571 Local panels & boards

- 01. Local panel
- 02. Fire local panel
- 11. Field remote I/O cabinet
- 31. Analyzer cabinet

1572 Bulk accessories

- 01. Mounting accessories (tubing, fitting, etc...)
- 02. Seal pot
- 03. Condensate pot
- 04. Pig tail
- 11. Cable tray and accessories
- 12. Mesh galvanized cable tray
- 21. Support

| | | | | | | | | | |
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- 31. Conduit and accessories
- 41. Pipe and accessories
- 42. 3-way instrument manifold
- 43. 5-way instrument manifold
- 51. Galvanized carbon steel pipe and accessories

1573 Special accessories

- 01. Manifold block
- 11. Protection enclosure (heating box)
- 12. Sunshade

1574 Cables, tubes and optic fiber




- 01. Instrument cable
- 02. Telecom cable
- 11. Optic fiber cable
- 12. Optic fiber cable splice box
- 21. Pneumatic tube
- 98. FO connection test
- 99. Multicable connection

1575 Enclosures

- 01. Junction box
- 11. Push button, hand switch
- 21. Cable gland

1576 HVAC instruments

- 01. HVAC pressure sensor
- 02. HVAC temperature sensor
- 03. HVAC solenoid valve

| | | | | | | | | | |
|--|---|---|------|------------|-----------|---------------|--|-----------------|----------------|
|   | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT | | | | | |  | | |
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- 11. HVAC control system

1580 PACKAGE

1581 Blending station

- 01. Blending control system

1582 Fluid sampler control

1583 Weighing system

- 01. Weighing computer control system

1584 Flow metering station

- 01. Flow metering station
- 02. Meter prover

1585 Analyzer shelters

- 01. Analyzer house — up to 8m²
- 02. Analyzer house — 8 to 16m²
- 03. Analyzer house — more than 16m²

1586 Calibration

- 01. Calibration bench



1590 TOOLS

1600 ELECTRICAL EQUIPMENT

1610 EARTHING AND LIGHTNING INSTALLATION

1611 Earthing and lightning

- 01. Branch connections (cadweld/compression)
- 02. Earthing rod/pit
- 03. Lightning equipment
- 04. Dispatchers

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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1620 POWER INSTALLATION

1621 Cables

- 01. HV power cables (voltage > 36 kV)
- 02. HV power cables (> 1kV < 36 kV)
- 03. Power and control cables (including lighting cables and splicing boxes)
- 04. Optic Fiber cables
- 05. Special cables
- 06. Earthing conductors
- 07. Termination kits

1622 Electrical conduits

1623 Cable trays and ladders

1624 Overhead lines

1625 Welding outlets

1626 Junction boxes

1627 Local control stations

1628 Local distribution boards

1629 Cable penetrations

1630 Lighting installation

1631 Lighting panels

1632 Floodlight/street/fence poles





1633 Street/fence lighting fixtures

1634 Lighting fixtures

1635 Lighting junction boxes

1636 Convenience outlets

1637 Floodlights

| | | | | | | | | | |
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1638 Navigation aids

- 01. Aircraft warning lights
- 02. Navigation aids

1640 TRANSFORMERS

1641 Transformers

- 01. HV/HV Transformers
- 02. HV/LV Transformers
- 03. LV/LV Transformers (including lighting transformers)
- 04. Special Transformers
- 05. Earthing impedances

1650 SWITCHGEARS

1651 HV equipment (> 36 kV)

- 01. Open type equipment
- 02. GIS

1652 HV switchgear (> 1 kV<3 6 kV)




- 01. GIS
- 02. Metal clad
- 03. Metal enclosed 1653 HV bus ducts (> 1kV <36 kV)

1654 LV switchgear (< 1kV)

- 01. LV switchgear withdrawable
- 02. Special Starters
- 03. Marshalling panels 1655 LV bus ducts (< 1kV)

1656 Capacitors / harmonic filters

- 01. Capacitors
- 02. Harmonic filters

| | | | | | | | | | |
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- 03. Self inductances 1657 Distribution panels (fixed)

1660 CONTROL AND PROTECTION SYSTEMS

- 1661 Central control and supervisory system
- 1662 Protection system
- 1664 PLC system
- 1665 Mimic panels
- 1666 Annunciator panels

1670 UPS SYSTEMS



- 1671 AC UPS Systems
 - 01. Rectifier/inverter/by-pass
 - 02. Distribution panels for AC UPS
- 1672 DC UPS Systems
 - 01. Rectifier
 - 02. Distribution panels for DC UPS
- 1673 Battery set for ups system

1680 MISCELLANEOUS

- 1681 Electric heaters
- 1682 Electrical tracing/heating systems
- 1684 Cathodic protection systems
- 1687 Autonomous power supply / Solar panels
- 1688 Electrical consumables

1690 ROTATING EQUIPMENT AND ASSOCIATED ACCESSORIES

- 1691 LV Motors
 - 01. LV Induction motors (including 2-speed motors or motors with 2 directions of rotation)

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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- 02. LV Synchronous motors
- 03. LV Ring type motors 1692 HV Motors

1692 HV Motors

- 01. HV Induction motors
- 02. HV Synchronous motors
- 03. HV Ring type motors

1693 LV VSIDS

1694 HV VSIDS

1695 Special motors / DC motors

1696 Electrical synchronous generator

1697 Emergency diesel synchronous generator

1700 CONCRETE WORKS AND FIRE PROOFING

1710 CIVIL MATERIAL (ANCHOR BOLTS, INSERTS ...)

1720 CONSTRUCTION CIVIL MATERIAL (AGGREGATE, CEMENT ...)

1730 PREFABRICATED COMPONENTS

1740 FIRE PROOFING

1750 CEMENT COATINGS



1760 ANTI-ACID LININGS

1800 STEEL STRUCTURES

1810 MAIN STRUCTURAL STEEL (PROCESS AND PIPE RACK STRUCTURES)

1820 SECONDARY STRUCTURAL STEEL

(Platforms on equipment, secondary platforms and walkways, sleepers and vertical supports, stairways, etc.)

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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1830 SHELTERS

1870 PLATING

1880 CLADDING

1890 PYLONS

1900 SAFETY

1910 FIRE VEHICLES, AMBULANCES

1920 FIXED OR MOBILE MONITORS

1930 FIXED EQUIPMENT (DELUGE, SPRINKLERS, CO2, HALON)

1940 PORTABLE OR MOBILE EXTINGUISHERS

1950 SAFETY SHOWERS - EYE WASHES

1960 AIR BREATHING APPARATUS

1970 LIFE SAVING EQUIPMENT

1980 LIFEBOATS

1990 MISCELLANEOUS PROTECTION EQUIPMENT (CLOTHING ...)

2000 BUILDINGS AND MODULES

(Excluding technical lots heating, ventilation, electricity, safety, ..see classes 34, 16, 19, etc...)

2010 CONTROL ROOM BUILDINGS

2020 SUBSTATIONS



2030 ADMINISTRATIVE BUILDINGS

2040 GATE HOUSE

2050 INDUSTRIAL BUILDINGS

2060 ANALYSER HOUSE

2061 Reinforced concrete type

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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2062 Steel structure type
2070 LIVING QUARTERS

2100 LABORATORY / WORKSHOP EQUIPMENT

2110 CHROMATOGRAPHY SYSTEMS

2120 SPECTROMETERS

2130 ELEMENTAL ANALYZERS

2140 NORMALIZED TESTING EQUIPMENT

2141 Petroleum testing equipment

2142 Optical equipment

2143 Electrochemical equipment

2150 PHYSICAL TESTING EQUIPMENT

2160 COMPLEMENTARY EQUIPMENT

2161 Glassware & miscellaneous equipment

2162 Sampling equipment

2170 LABORATORY FURNITURE

2171 Gas distribution systems

2180 CHEMICALS

2181 Gases

2190 PROCESSING EQUIPMENT




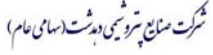
2191 Specific units

2192 Packages

2200 INSULATION

2210 HOT INSULATION

2220 COLD INSULATION

|   | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |   | | | | | | | | | | | | | | | | | | |
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2230 CRYOGENIC WEDGES (EQUIPMENT / STRUCTURAL) (See also code 1382 for piping)

2240 ACOUSTIC INSULATION

2300 PAINTING

2310 PAINTING

2320 PROTECTIVE COATING / LINING

2400 LUBRICANTS

2410 Lubricants

2500 STORAGE TANKS AND SILOS

2510 SHOP-ASSEMBLED TANKS

2520 FIXED OR FLOATING ROOF TANKS ASSEMBLED ON SITE

2540 SPHERES, SPHEROIDS & BULLETS

2541 Spheres

2542 Spheroids

2543 Bullets

2550 CRYOGENIC STORAGE TANKS (LNG, NH3, ETC ...)

2560 SILOS & HOPPERS



2561 Silos

2562 Hoppers

2563 Fluidized hoppers

2564 Homogenization systems for blending

2565 Clinker silos equipment

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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2566 Cement silos equipment

2570 INTERNAL LININGS

2580 GAS HOLDERS

2600 CHEMICAL, CATALYSTS, FUEL AND GREASE

2610 CHEMICALS

2620 OIL & GREASE

2630 CATALYSTS

2640 FUEL

2650 GASES

2651 Diving gases

2652 Industrial gases

2700 TELECOM

2710 SECURITY AND MONITORING SYSTEM

01. CCTV system




02. Access control system(ACS)

03. Anti intrusion surveillance system(AISS)

O:\N-278\HF

2720 RADIO SYSTEM

01. Conventional radio system

| | | | | | | | | | |
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02. Trunked radio system
03. Aeronautical VHF system
04. Non directional beacon (NDB) radio system
05. Satellite system
06. Radar system
07. Marine VHF radio system
08. Point to point microwave radio system
09. Point to multi-point microwave radio system
10. MF/HF radio system
11. Radio telecom tower
12. Global Distress Marine and Safety System (GDMSS)
13. UHF Paging System

2730 TELECOMMUNICATION SYSTEM




01. Telephone system
02. PA/GA System
03. LAN(Office and Plant)
04. Fibre Optic cable system

3400 HEATING - VENTILATION - AIR CONDITIONING

3410 HEATING PRODUCTION

3420 COOLING PRODUCTION

3430 AIR TREATMENT

| | | | | | | | | | |
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3431 Air handling units

3432 Ventilation units, fans

3433 Air conditioners

3434 Split systems, roof top units, window units

3435 Fan coil units

3436 Unit heaters

3437 Miscellaneous (filters, coils, humidifiers)

3440 AIR NETWORK

3441 Ducts (and insulation)

3442 Grilles, diffusers

3443 Dampers

3444 Terminal equipment (VAV boxes ...)

3445 Miscellaneous

3450 HVAC PIPING NETWORK

3451 Pumps

3452 Piping & insulation



3453 Valves & fittings

3454 Terminal equipment, radiators

3455 Miscellaneous

3470 OTHER EQUIPMENT (WATER COOLING TOWERS)

3480 AIR CONDITIONING & VENTILATION SYSTEMS (COMPLETE PACKAGE)

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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3500 FLOWLINE / RISER SPECIFIC EQUIPMENT AND MATERIAL

3510 FLOWLINE / RISER I SPOOL

- 3511 Flexible pipe
- 3512 Installed rigid pipe (see 1300 for pipe procurement)
- 3513 Umbilical
- 3514 Stand-alone offshore electrical cable

3520 BENDS

3530 PIPELINE PROTECTION

- 3531 Concrete products (mattresses)
- 3532 Plastic / rubber protection products

3540 INSULATION SYSTEMS I COMPONENTS

- 3541 Pipe-in-pipe insulation and bulkheads
- 3542 Pipe-in-pipe spacers

3550 BARRED TEES

3560 PIG STATION (LAUNCHER / RECEIVER)

3570 SLUG CATCHER



3580 COATING

- 3581 Pipe coating
- 3582 Field joint coating
- 3583 Pipe liner

3590 BUOYANCY DEVICES

- 3591 Mid-water arches, gravity bases
- 3592 Buoyancy modules

3600 OFFSHORE SPECIFIC EQUIPMENT I MATERIAL

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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3610 MATERIAL FOR STRUCTURE

- 3611 Steel tubulars (welded & seamless)
- 3612 Steel profiles (flat, bulbs, shapes)
- 3613 Prefabricated nodes
- 3614 Plate girders
- 3615 Steel Plates
- 3616 Steel grating and forgings
- 3617 Piles
- 3618 Steel bars

3620 ACCESSORIES



- 3621 Wood
- 3622 Anodes
- 3623 Supporting devices
- 3624 Bumpers / shock cells
- 3625 Leg closures
- 3626 Boat landing
- 3627 Clumps
- 3628 Protection frames

3630 PLATFORM HANDLING SYSTEMS

- 3631 Jacking systems
- 3632 Locking systems

3640 ERECTION MATERIAL

- 3641 Piling systems
- 3642 Swaging
- 3643 Grouting

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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3650 REFUELLING SKIDS

3660 SUBSEA EQUIPMENT

- 3661 X-Mas trees (surface and subsea)
- 3662 Surface / subsea manifolds
- 3663 Well heads
- 3664 Blowout preventer
- 3665 Subsea isolation valves
- 3666 Plems, flets
- 3667 Subsea connection systems (flexconnect, matis...)

3670 SUBSEA CONTROL SYSTEMS



- 3671 Bop control systems
- 3672 Manifold control systems
- 3673 Wellhead control systems

3680 RISERS ASSEMBLIES

- 3681 Riser tensioning devices (buoyancy cans, tensioners...)
- 3682 Riser monitoring / control systems
- 3683 Wellhead connectors
- 3684 Riser joints (drilling/production risers, flex joints, slip joints, keel joints...)

3690 MARINE VESSEL CONTROL & POSITIONING

- 3691 Dynamic positioning systems
- 3692 Vessel management system
- 3693 Ballast / stability systems

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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3694 Radar

3695 Navigation systems

3700 OPERATION MAINTENANCE WORKSHOP

3710 MECHANICAL OPERATION / MAINTENANCE WORKSHOP

3720 ELECTRICAL OPERATION / MAINTENANCE WORKSHOP

3730 INSTRUMENT OPERATION / MAINTENANCE WORKSHOP

3740 CIVIL OPERATION / MAINTENANCE WORKSHOP

3800 OFFSHORE MOORING / TOWING / FENDERING

3810 MOORING EQUIPMENT

3811 Mooring chains

3812 Mooring rope (wire, natural fibre, synthetic fibre)

3813 Mooring anchors

3814 Mooring buoys

3815 Mooring accessories (fairleads, bollards...)

3816 Mooring pennant, tether

3817 Tensioning devices (winches, jacks, welps...)



3818 Mooring connectors

3820 TOWING EQUIPMENT

3830 FENDERING SYSTEM

3840 TRANSPORTATION / INSTALLATION MONITORING SYSTEM

3900 UMBILICAL AND FLEXIBLE MATERIAL

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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3910 NON-MANUFACTURED ELEMENTS

- 3911 Steel wires
- 3912 Tapes (adhesives, non adhesive tapes, re- inforced, etc.)
- 3913 Thermoplastics (PE, PA, PVDF, PER)
- 3914 Insulation
- 3915 Aramid
- 3916 Tubes (steel, plastic)
- 3917 Steel strips
- 3918 Composite armours

3920 MANUFACTURED ELEMENTS




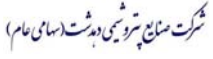
- 3921 Offshore electrical cables
- 3922 Umbilical hose carcass
- 3923 Umbilical electrical connectors
- 3924 Offshore fiber optic cable
- 3925 Space fillers

3930 TERMINATIONS

- 3931 Flexible end fittings
- 3932 Umbilical subsea termination units
- 3933 Umbilical terminators
- 3934 Interface equipment (hangoffs, clamps...)
- 3935 Bend stiffeners, restrictors

3940 MANUFACTURING EQUIPMENT AND MACHINES

- 3941 Machine and equipment
- 3942 Reels and accessories

|   | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |   | | | | | | | | | | | | | | | | | | |
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4000 HANDLING AND PACKING

4010 SOLID HANDLING



- 4011 Belt conveyors (fixed or mobile) & pipe conveyors
- 4012 Roller conveyors
- 4013 Screw conveyors
- 4014 Vibrating conveyors - oscillating conveyors - air cushion conveyors
- 4015 Bin activators (extractor under silos)
- 4016 Bucket elevators - screw elevators
- 4017 Steel-band conveyors, push-bar chain conveyors, apron conveyors
- 4018 Chain conveyors - reddler conveyors
- 4019 Catalyst handling systems

4020 LOADING AND UNLOADING

- 4021 Truck loaders, wagon loaders
- 4022 Ship loaders, unloaders
- 4023 Stackers & reclaimers
- 4024 Front loaders, payloaders
- 4025 Truck loading arms
- 4026 Marine loading arms
- 4027 Telescopic chute
- 4029 Automatic storing systems

4030 PNEUMATIC AND GRAVITY HANDLING

- 4031 Pneumatic conveying systems
- 4032 Bottom valves for silos, diaphragm valves
- 4033 Rotary & diverter valves
- 4034 Air lift

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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4035 Fluidized extracting system

4036 Air slides

4040 DOSING AND WEIGHING EQUIPMENT

4041 Truck scales, weighing bridges

4042 Scales

4043 Belt weighing systems

4044 Weigh feeders

4045 Dosing bins

4046 Chemical dosing systems

4047 Powder dosing systems

4050 PACKING

4051 Bagging systems

4052 Palletizing, depalletizing systems

4053 Wrapping machines

4054 Filling lines for drums, cans, bottles

4055 Gas cylinder conditioning, filling lines

4056 Containers making systems

4057 Bag & box opening & emptying machines

4059 Packing material, production machines

4060 NON CONTINUOUS MECHANICAL HANDLING / LIFTING



4061 Elevators (passengers & goods) including lifting platforms

4062 Wagons haulage

4063 Lift Truck

4064 Hoists (mechanical, electrical, pneumatic)

4065 Cranes (bridge cranes, gantry cranes, etc)

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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- 4066 Offshore cranes
- 4067 Mobile equipment
- 4068 Road & rail tankers
- 4069 Driverless trucks

4070 MECHANICAL HANDLING OF INDIVIDUAL LOADS

4080 RIGGING / LIFTING ACCESSORIES

- 4081 Slings, shackles, chain blocks, etc.
- 4082 Crane, winch, lift wires

4100 PACKAGED PROCESS UNITS AND GENERAL PACKAGES





(Excluding package for water treatment. see material code 0200)

4110 PACKAGED PROCESS UNITS

- 4111 Hydrogen production/purification units
- 4112 Nitrogen production/purification units
- 4113 Oxygen production/purification units
- 4114 Sulphur recovery units
- 4115 Inert gas generation units
- 4116 Gas/liquid dehydration units
- 4117 Cryogenic storage systems
- 4118 Fuel preparation units
- 4119 Air generation units (instrument, service air)

4120 POWER GENERATION PACKAGES

- 4121 Steam turbine generators
- 4122 Gas turbine generators
- 4123 Diesel engine generators

| | | | | | | | | | |
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4130 INJECTION / DISPERSION SYSTEMS

(OIL MISTS, CLEANING IN PLACE FACILITIES, ETC..)

4140 OIL DESALTING UNITS

4150 REFRIGERATION UNITS

4151 Mechanical refrigeration units

4152 Absorption refrigeration units (lithium bromide)

4153 Cold box

4170 DRYERS

4171 Air dryers

4172 Gas dryers

4173 Liquid dryers

4174 Solid dryers - rotary type

4175 Solid dryers - fluid bed type

4176 Other dryers

4180 HYDRAULIC POWER UNITS

4190 PRESSURE CLEANING SETS

4200 MECHANICAL SEPARATION AND MIXING

4210 CENTRIFUGES



4211 Pusher type centrifuge

4212 Horizontal decanter centrifuges

4213 Vertical decanter centrifuges

4214 Other types centrifuges

4220 ROTARY FILTERS

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
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4221 Rotary vacuum filters

4222 Belt type filters

4223 Rotary disc filters

4230 PRESS FILTERS

4240 OTHER FILTERS

4241 Bag filters

4242 Electrostatic filters (dust...)

4243 Air filters

4244 Electrostatic coalescers, precipitators

4245 Dedusting filters with fan

4246 Cartridge Filter

4250 OTHER SEPARATORS

4251 Film evaporators

4252 Multi-cyclones

4253 Dynamic classifiers / separators

4254 Static separators

4255 Magnetic separators

4256 Metal detectors

4257 Screens (vibrating or static)

4258 Elutriators





4260 MIXING

4261 Agitators

4262 Jet mixers & steam jet heaters

4263 Static mixers

4264 Mixers, homogenizers, kneading machines

| | | | | | | | | | |
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4300 SOLID PROCESSING FACILITIES

(See also codes 4000 and 4200)

4310 CRUSHING / GRINDING

- 4311 Impact crushers
- 4312 Roller crushers
- 4313 Hammer crushers
- 4314 Other crushers
- 4315 Ball mills
- 4316 Vertical roller mills
- 4317 Horizontal roller mills
- 4318 Vertical roller pregrinders (ckp...)
- 4319 Roller press

4320 BLOW MOULDING MACHINES - INJECTION MOULDING

4330 PRESSES, BRIQUETING MACHINES

4340 EXTRUDER & PELLETIZING EQUIPMENT

4350 FLAKERS



- 4351 Rotary type
- 4352 Belt type

6200 HEALTH, SAFETY & ENVIRONMENT (HSE)

6300 WELDING / BURNING EQUIPMENT

6310 WELDING / BURNING CONSUMABLES

- 6311 Welding wires

|  | DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT |  | | | | | | | | | | | | | | | | | | |
|---|--|--|------------|-----------|---------------|------------|---------------|------------|----------|-----|-----|----|----|------|------|---|-----------------|----------------|-----------------------|--|
| Contract No.: DPIC/98-12 | DOCUMENT TITLE: Document Numbering Procedure <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 12.5%;">Proj. Code</th> <th style="width: 12.5%;">Area</th> <th style="width: 12.5%;">Unit</th> <th style="width: 12.5%;">Disc. Code</th> <th style="width: 12.5%;">Doc. Type</th> <th style="width: 12.5%;">Material Code</th> <th style="width: 12.5%;">Serial. No</th> </tr> </thead> <tbody> <tr> <td>DPIC9812</td> <td>000</td> <td>000</td> <td>PM</td> <td>PR</td> <td>0000</td> <td>0003</td> </tr> </tbody> </table> | Proj. Code | Area | Unit | Disc. Code | Doc. Type | Material Code | Serial. No | DPIC9812 | 000 | 000 | PM | PR | 0000 | 0003 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Class: A</td> <td style="width: 50%;">Rev. D1</td> </tr> <tr> <td colspan="2" style="text-align: center;">Sheet 68 of 68</td> </tr> </table> | Class: A | Rev. D1 | Sheet 68 of 68 | |
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6312 Covered electrodes

6313 Welding flux

6320 WELDING AND BURNING EQUIPMENT

6321 Welding machines

6322 Welding hand tools

6323 Welding hose

6324 Oxy cutters and burners

6700 TRANSPORT AND TRANSIT

6710 PACKING

6720 TRANSPORT

6730 OFFSHORE CONTAINERS

8000 CONSTRUCTION EQUIPMENT AND COMMODITIES

8010 CONSTRUCTION EQUIPMENT AND TOOLS

8100 LIVING QUARTERS, CANTEENS AND CAMPS

8110 LIVING QUARTERS, CANTEENS AND CAMPS

8200 TEMPORARY JOBSITE FACILITIES

8210 TEMPORARY JOBSITE FACILITIES