



DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT



Contract No.: DPIC/98-12	DOCUMENT TITLE: Document Numbering Procedure							Class: A	Rev. D4
	Proj. Code	Area	Unit	Disc. Code	Doc. Type	Material Code	Serial. No		
	DPIC9812	000	000	PM	PR	0000	0004	Sheet 1 of 70	

DOCUMENT NUMBERING PROCEDURE

D4	09-Feb-2021	B.Hedayat	B.Hedayat	B.Hedayat	Sh.Haghighi	Issued for Approval
D3	26-Oct-2020	A.Kaviyan	A.Kaviyan	A.Kaviyan	E.Kareshki	Issued for Approval
D2	27-May-2020	H.Farhadi	H.Farhadi	Farhadi	Mojahed	Issued for Approval
D1	26-Feb-2020	H.Farhadi	H.Farhadi	Farhadi	Mojahed	Issued for Approval
D0	05-Feb-2020	H.Farhadi	A.Kavyan	Farhadi	Mojahed	Issued for Approval
REV	DATE ISSUE	PREPARED	CHECKED	NEC	PPI	PURPOSE OF ISSUE
				APPROVED		






DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
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	Proj. Code	Area	Unit	Disc. Code	Doc. Type	Material Code	Serial. No		
	DPIC9812	000	000	PM	PR	0000	0004	Sheet 2 of 70	




TABULATION OF REVISED PAGES

Page	Rev-D0	Rev-D1	Rev-D2	Rev-D3	Rev-D4	Page	Rev-D0	Rev-D1	Rev-D2	Rev-D3	Rev-D4	Page	Rev-D0	Rev-D1	Rev-D2	Rev-D3	Rev-D4
1	x		x			31		x				61		x			
2	x	x	x			32		x				62		x			
3	x	x	x			33		x				63		x			
4	x	x	x			34		x				64		x			
5	x	x	x			35		x				65		x			
6	x	x				36		x				66		x			
7	x	x			x	37		x				67		x			
8	x	x				38		x				68		x			
9	x	x				39		x				69		x			
10	x	x				40		x				70		x			
11	x	x				41		x									
12	x					42		x									
13	x			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									
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26		x				56		x									
27		x				57		x									
28		x				58		x									
29		x				59		x									
30		x				60		x									

 	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT																			
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Proj. Code	Area	Unit	Disc. Code	Doc. Type	Material Code	Serial. No														
DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 3 of 70																				

Index

1. Introduction
2. Purpose
3. Scope
4. Definitions
5. Responsibilities
6. Document Numbering Format
 - Project No.
 - Unit No.
 - Discipline Code
 - Document Type
 - Material Code
 - Serial Number
7. Sheet and Revision Number
8. EQUIPMENT/MOTOR Numbering
9. Line Numbering
10. Instrument Numbering
11. Vendor Documents Numbering

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Proj. Code	Area	Unit	Disc. Code	Doc. Type	Material Code	Serial. No														
DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 4 of 70																				

1 Introduction

Execution Dehdasht High-Density Polyethylene (HDPE) Project on EPC scheme has been awarded by Dehdasht Petrochemical Industries Company (DPIC) to the Joint Venture of Petropars Iran and Nargan Engineering company under the leadership of Petropars Iran.



Dehdasht Petrochemical Industries Company (DPIC) desires to establish and operate a High-Density Polyethylene (HDPE) plant in Dehdasht City, Kohgiluyeh and Boyer-Ahmad Province, Iran which is consist of Process units under license of “Basell Polyolefin GmbH”, Utility production facilities and Offsite facilities for producing 300,000 Tons HDPE as 9 different grades of products per year.

Ethylene as the main feeds of complex are supplied from OSBL via pipe lines. All the required Ethylene is delivered via Dena Ethylene pipe line and the other required chemicals such as Buthene-1, Hexane and TEAL are supplied by truck.

The utility units are including Cooling Water Unit, Effluent Treatment Unit, Water Treatment Unit, Air generation unit, Nitrogen generation unit, Steam generation unit, Hydrogen generation unit, and Evaporation pond. In addition, Firefighting system, Fuel storage and Emergency diesel generator are as part of Off-site facilities.

2 Purpose

This Project Procedure specifically specifies engineering document numbering system.

	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT																			
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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 5 of 70																				

3 Scope

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.

4 Definitions

PROJECT: Dehdasht High Density Polyethylene Project, Utility and Off-site Plant

CLIENT: Dehdasht Petrochemical Industry Company (DPIC)

LICENSOR: Basell Polyolefin GmbH

MC: Petrochemical Industries Development Management Co. (PIDMCO)

EPC CONTRACTOR: Petropars Iran/ Nargan Joint Venture

VENDOR: "Vendor(s)" shall mean any EPC CONTRACTOR's and/or Sub CONTRACTOR's suppliers of materials and vendor representative that maybe required to assist EPC CONTRACTOR and/or CLIENT for the installation, commissioning and start-up, performance tests , etc. of the Plant.



5 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.

6 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.

	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT								
	Contract No.: DPIC/98-12	DOCUMENT TITLE: Document Numbering Procedure						Class: A	Rev. D4
	Proj. Code	Area	Unit	Disc. Code	Doc. Type	Material Code	Serial. No	Sheet 6 of 70	
	DPIC9812	000	000	PM	PR	0000	0004		

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	6	7
Project Name.	Area No.	Unit No.	Discipline.	Document Type.	Material Code	Serial No.
DPIC98-12	***	**	**	**(*)	****	****

Where:

- **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 Station, Teal

500 - Additives, Extrusion, Pelletizing, Pneumatic Haulage

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 7 of 70																				

- 540 - Homogenization and Storage
- 600 - Refrigeration Unit, Jacket Water System, Steam and Condensate System
- 700 - Bagging and Warehouse
- 710 – General Warehouse 1
- 720 – Wax Warehouse
- 730 - General Warehouse 2
- 740 – Pallet Warehouse
- 810 - Let down Station Unit (Natural Gas and Ethylene)
- 820- Water Treatment
- 830- Waste Water Treatment
- 840- Cooling Tower
- 850- Air Separation & Generation Unit and Nitrogen Generation
- 870- Steam Generation Unit
- 880- Hydrogen Generation Unit
- 881- Laboratory
- 882- Control Building (Process Area)
- 883- Substation (Process Area)
- 884- Fire Fighting Building
- 885- Substation (Utility Area)
- 886- Control Building (Utility Area)
- 887- Control Building (Waste Water Area)
- 888- Logistic Building
- 889- Other Buildings /Shelters/Evaporation Ponds/Warehouse/etc
- 890- Emergency Diesel Generation Unit



 	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT	 شرکت صنایع پتروشیمی خلیج فارس Persian Gulf Petrochemical Industries Co PGPIC شرکت صنایع پتروشیمی دشت (سهامی عام)																		
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Proj. Code	Area	Unit	Disc. Code	Doc. Type	Material Code	Serial. No														
DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 8 of 70																				

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
PI	Piping Engineering
HV	HVAC Engineering
CI	Control & Instrumentation Engineering
PQ	Procurement
CC	Cost Control



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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 9 of 70																				

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 2 or 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, ...
DWG	Drawing
DIA	Diagram
CLN	Calculation Note
STD	Standard Drawing / Design
PR	Procedure

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 10 of 70																				



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

- **Serial Number**

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

	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT																			
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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 11 of 70																				

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..."

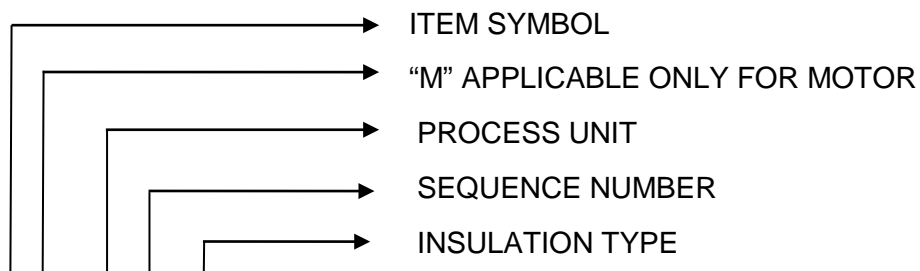
Detail Engineering:



First Issue: "D0"

Next Issues: "D1, D2 ..."

8 EQUIPMENT/MOTOR Numbering

Equipment Item Number:

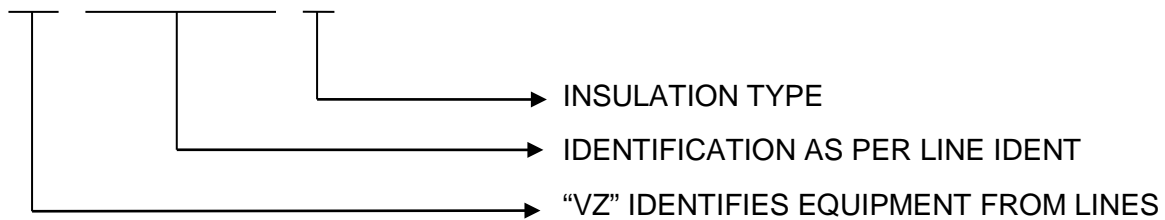


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Class: A	Rev. D4																			
Sheet 12 of 70																				

E M – 13 01 – Z

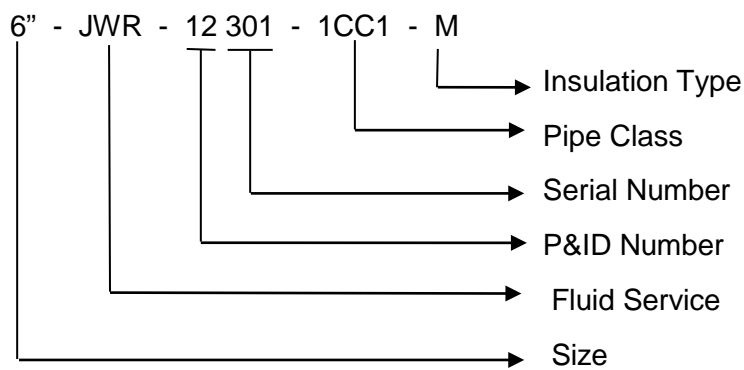
Supplementary Identification Used only when item is provided with appurtenances:

V Z – 11301 – 1CC1 – F





For Equipment Coding System, See legend.

9 Line Numbering

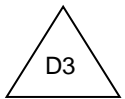


10 Instrument Numbering

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

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 13 of 70																				




11 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:

	<u>DPIC9812 - XXX - VD - XXXX - XXXX - XX - XXX - 0001</u>
Project No.	
Area No.	
Abbreviation for "Vendor Document"	
Material code of MR	
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								
Contract No.: DPIC/98-12	DOCUMENT TITLE: Document Numbering Procedure							Class: A	Rev. D4
	Proj. Code	Area	Unit	Disc. Code	Doc. Type	Material Code	Serial. No		
	DPIC9812	000	000	PM	PR	0000	0004	Sheet 14 of 70	




Attachment # 1

 	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT	 شرکت صنایع پتروشیمی خلیج فارس Persian Gulf Petrochemical Industries Co PGPIC شرکت صنایع پتروشیمی دہشت (سهامی عام)																		
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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 15 of 70																				

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	 شرکت صنایع پتروشیمی خلیج فارس Persian Gulf Petrochemical Industries Co PGPIC شرکت صنایع پتروشیمی دشت (سهامی عام)																		
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Class: A	Rev. D4																			
Sheet 16 of 70																				

- 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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Sheet 17 of 70																				




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

 	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT	 شرکت صنایع پتروشیمی خلیج فارس Persian Gulf Petrochemical Industries Co PGPIC شرکت صنایع پتروشیمی دهبشت (سهامی عام)																		
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Class: A	Rev. D4																			
Sheet 18 of 70																				

- 0125 Tubesheets and brackets
- 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)

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Sheet 19 of 70																				

0152 Water-tube boilers (package)

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

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Sheet 20 of 70																				

0187 Burn-pit burners

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

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Sheet 21 of 70																				

0221 Physical treatment

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

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Sheet 22 of 70																				

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

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Sheet 23 of 70																				

0570 TRAYS & INTERNALS

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

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 24 of 70																				

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

 	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT	 شرکت صنایع پتروشیمی خلیج فارس Persian Gulf Petrochemical Industries Co PGPIC شرکت صنایع پتروشیمی دهبشت (سهامی عام)																		
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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 25 of 70																				

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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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 26 of 70																				

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

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Class: A	Rev. D4																			
Sheet 27 of 70																				

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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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 28 of 70																				

1380 SUPPORTS




- 1381 Material for standard supports
- 1382 Cryogenic wedges
- 1383 Spring hangers
- 1384 Sliding plates
- 1385 Rigids 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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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 29 of 70																				

- 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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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 30 of 70																				

- 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

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 31 of 70																				

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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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 32 of 70																				

- 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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Class: A	Rev. D4																			
Sheet 33 of 70																				



- 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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Class: A	Rev. D4																			
Sheet 34 of 70																				

- 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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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 35 of 70																				

- 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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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 36 of 70																				



- 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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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 37 of 70																				

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

1546 Differential pressure elements

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

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 38 of 70																				

- 06. Flow nozzle
- 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

- 01 Fiscal Metering System
- 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

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 39 of 70																				

- 04. Conductive level transmitter
- 05. Ultrasonic level transmitter
- 06. Gamma ray/Radioactive 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/Radioactive level switch
- 17. Microwave level switch
- 18. Radar Level Switch
- 19. Float 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 level transmitter
- 43. Level profiler




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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 40 of 70																				

1553 Pressure instruments

- 01. Electronic pressure transmitter
- 02. Electronic differential pressure transmitter (flow)
- 03. Electronic differential pressure transmitter (level)
- 04. Electronic differential pressure transmitter (pressure)
- 05. Absolute pressure transmitter
- 06. Electronic differential pressure transmitter (flow) with integral orifice
- 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

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Proj. Code	Area	Unit	Disc. Code	Doc. Type	Material Code	Serial. No														
DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 41 of 70																				

- 21. Temperature switch

1555 Local instruments




- 01. Local controller
- 02. Local recorder
- 03. Local milliammeter
- 04 Earth Switch

1557 Local instruments accessories

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

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 42 of 70																				

- 15. Vibration switch
- 17. Axial displacement switch
- 18. Temperature switch for rotating machine
- 19. Position switch
- 23. Speed indicator
- 31. Burner flame detector




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

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Class: A	Rev. D4																			
Sheet 43 of 70																				

- 36. Portable chlorine analyzer
- 51. NOx/ISOx analyzer
- 52. Hydrocarbon analyzer (infrared based)
- 53. Mass spectrometer
- 54. X-ray spectroscopy
- 55. Infrared gas analyzer (FTIR)

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

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 44 of 70																				

- 19. CFPP analyzer
- 20. Melt flow index

1564 Automatic analyzers




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

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Class: A	Rev. D4																			
Sheet 45 of 70																				

- 05. Beacon / flashing light
- 06. Horn
- 07. Buzzer
- 08. Siren
- 09. Heat detector
- 10. VESDA system
- 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
- 08. Corrosion coupon

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

 	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT																			
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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 46 of 70																				

- 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
- 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

	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT																			
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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 47 of 70																				

- 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
- 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

 	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT																			
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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 48 of 70																				

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

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

 	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT								
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	Proj. Code	Area	Unit	Disc. Code	Doc. Type	Material Code	Serial. No		
	DPIC9812	000	000	PM	PR	0000	0004	Sheet 49 of 70	



- 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
- 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)

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 50 of 70																				

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
- 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

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

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 51 of 70																				

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)
- 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

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Class: A	Rev. D4																			
Sheet 52 of 70																				

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.)

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...)

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 53 of 70																				

2010 CONTROL ROOM BUILDINGS

2020 SUBSTATIONS

2030 ADMINISTRATIVE BUILDINGS

2040 GATE HOUSE

2050 INDUSTRIAL BUILDINGS

2060 ANALYSER HOUSE

2061 Reinforced concrete type

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

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 54 of 70																				

2181 Gases

2190 PROCESSING EQUIPMENT

2191 Specific units

2192 Packages

2200 INSULATION

2210 HOT INSULATION

2220 COLD INSULATION

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

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Class: A	Rev. D4																			
Sheet 55 of 70																				

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
- 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

 	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT	 شرکت صنایع پتروشیمی خلیج فارس Persian Gulf Petrochemical Industries Co PGPIC شرکت صنایع پتروشیمی دهبشت (سهامی عام)																		
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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 56 of 70																				

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
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)

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Class: A	Rev. D4																			
Sheet 57 of 70																				

04. Fibre Optic cable system

3400 HEATING - VENTILATION - AIR CONDITIONING

3410 HEATING PRODUCTION

3420 COOLING PRODUCTION

3430 AIR TREATMENT




- 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

 	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT																			
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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 58 of 70																				

3454 Terminal equipment, radiators

3455 Miscellaneous

3470 OTHER EQUIPMENT (WATER COOLING TOWERS)

3480 AIR CONDITIONING & VENTILATION SYSTEMS (COMPLETE PACKAGE)

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

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 59 of 70																				

- 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

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

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 60 of 70																				

3628 Protection frames

3630 PLATFORM HANDLING SYSTEMS

3631 Jacking systems

3632 Locking systems

3640 ERECTION MATERIAL

3641 Piling systems

3642 Swaging

3643 Grouting

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

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Class: A	Rev. D4																			
Sheet 61 of 70																				

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

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

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Class: A	Rev. D4																			
Sheet 62 of 70																				

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

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

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Class: A	Rev. D4																			
Sheet 63 of 70																				

- 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



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

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DPIC9812	000	000	PM	PR	0000	0004														
Class: A	Rev. D4																			
Sheet 64 of 70																				

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

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

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Class: A	Rev. D4																			
Sheet 65 of 70																				

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)

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

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Class: A	Rev. D4																			
Sheet 66 of 70																				

- 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

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

 	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT	 شرکت صنایع پتروشیمی خلیج فارس Persian Gulf Petrochemical Industries Co PGPIC شرکت صنایع پتروشیمی دهبشت (سهامی عام)																		
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Sheet 67 of 70																				

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

- 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

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Class: A	Rev. D4																			
Sheet 68 of 70																				

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

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

	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>0004</td> </tr> </tbody> </table>	Proj. Code	Area	Unit	Disc. Code	Doc. Type	Material Code	Serial. No	DPIC9812	000	000	PM	PR	0000	0004	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Class: A</td> <td style="width: 50%;">Rev. D4</td> </tr> <tr> <td colspan="2" style="text-align: center;">Sheet 69 of 70</td> </tr> </table>	Class: A	Rev. D4	Sheet 69 of 70	
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Class: A	Rev. D4																			
Sheet 69 of 70																				

4351 Rotary type

4352 Belt type

6200 HEALTH, SAFETY & ENVIRONMENT (HSE)

6300 WELDING / BURNING EQUIPMENT

6310 WELDING / BURNING CONSUMABLES

6311 Welding wires

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

 	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT	 شرکت صنایع پتروشیمی خلیج فارس Persian Gulf Petrochemical Industries Co PGPIC شرکت صنایع پتروشیمی دهبشت (سهامی عام)																		
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Sheet 70 of 70																				

8110 LIVING QUARTERS, CANTEENS AND CAMPS

8200 TEMPORARY JOBSITE FACILITIES

8210 TEMPORARY JOBSITE FACILITIES