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**DEHDASHT PETROCHEMICAL INDUSTRY COMPANY**

**DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT**

**GENERAL HSEQ REQUIREMNTS**

**DOCUMENT NUMBER**  
**DPIC9812-000-000-PM-PR-0000-0014**




D0	04-May-2020	R.Chareh , K.Kazemian	A.H.M	Honarmandian	E.Kareshki	A.Kaviyan	Issue For Approval
REV	DATE ISSUE	PREPARED	CHECKED	AUTH	PPI	NEC	PURPOSE OF ISSUE
					APPROVED		

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## 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 and Scope



### 2.1 Purpose

The aim of this procedure is to describe the minimum general HSEQ requirement to be implemented by Vendor (supplier or manufacturer).

### 2.2 Scope

This Document together with individual approved PROJECT QUALITY and HSE document cover minimum quality control requirements to be performed by Vendor for the equipment and materials, which are procured by EPC CONTRACTOR.



The Vendor shall perform the Inspection and its relative quality control work in accordance with the relevant specification, this Procedure, applicable codes and standards, and the

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related Engineering Specifications, Data sheets, etc. included in the Requisition as well as Vendor's inspection procedure and ITP approved by EPC CONTRACTOR.

### 3 Terms and definitions

PROJECT	:	<u>Dehdasht High Density Polyethylene Project, Utility and Off-site</u>
CLIENT	:	<u>Dehdasht Petrochemical Industry Company (DPIC)</u>
LICENSOR	:	<u>Basell Polyolefin GmbH</u>
MC	:	<u>Petrochemical Industries Development Management Co. (PIDMCO)</u>
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.
Subcontractor	:	Any company or person, to whom CONTRACTOR has sub contracted performance of any part of the Work.
Purchase Order (PO)	:	The documents and attachments in which the order- in accordance with applicable statutory regulations, codes, standards and the PROJECT specifications -is described and assigned.
Requisition	:	The document which establishes the several technical and commercial purchase conditions
TPIA	:	Third Party Inspection Agency which will carry out independent

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	inspection and certification
PSI	: Pre-Shipment Inspection which will be performed by TPIA before Shipping
ITP/QCP	: Inspection and Test Plan is a document which identifies all Quality Control activities (inspection, examination, tests and etc.) to be performed during fabrication, construction and execution of works prepared by Vendor and approved by CLIENT and CONTRACTOR
MDR	: Manufacturer's Data Records

*Other quality terms and definitions stated in ISO 9000:2015 are applicable to this document.*

#### 4 Normative references

ISO 9000: 2015	Quality management systems - Fundamentals and vocabulary.
ISO 9001: 2015	Quality management systems – Requirements
ISO 9004: 2018	Quality management systems - Guidelines for performance improvements.
OGP Guidelines	International Association of OIL & GAS PRODUCERS Guidelines (OGP Guidelines)
ISO 14001:2015	Environmental Management System
OHSAS 18001:2007	Occupational Health and Safety Management Systems-Requirement
ISO 45001:2018	Occupational Health and Safety Management Systems – Requirements with guidance for use

Reference for executing inspection and tests, and relative quality control work shall include this Specification, applicable codes and standards, related Engineering Specifications, data sheets, etc. included in the Requisition as well as Vendor's inspection and test procedures and quality plans approved by EPC CONTRACTOR Quality Management System.

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## 5 Conflict Requirement and Document Priority

In case of conflict between the various documents, their precedence is as follows:



- Purchase Order
- Requisition
- Vendor Shop Quality Control Procedure
- Other reference Codes and Standards

Vendor shall submit its deviation list to EPC CONTRACTOR for approval. However, if conflict arises between ITP and data sheets, data sheet will prevail.

## 6 Inspection and Quality Assurance Requirements



### 6.1 Inspection

1. The inspection and test requirements shall be performed in accordance with the relevant documents listed in this Material Requisition.
2. The Vendor shall duly assign, for all quality-related matters, a dedicated point of contact for the duration of the Purchase Order. As soon as practical after the effective date (within two weeks), the Vendor shall schedule a dedicated pre-inspection meeting (PIM) prior to commencement of fabrication work. The PIM, as a matter of principle, shall be undertaken at the place of Vendor.
3. A mutually agreed date will be arranged between the Vendor and the EPC CONTRACTOR for a kick-off meeting to discuss coordination and ongoing issues with the Purchase Order.
4. The Vendor shall submit a typical "Inspection and Test Plan" (ITP) document during detailed design showing the details, timing and acceptance criteria of inspection and shop tests to the EPC CONTRACTOR for approval. The Inspection and Test Plan summarizes the minimum requirements of the inspection and test activities (review, witness, hold and approve) for the CLIENT, EPC CONTRACTOR, Vendor, Sub-Vendor and/or Third Party Inspection Agency.
5. The CLIENT/EPC CONTRACTOR and/or third party inspection agency reserve the right to witness or audit the Vendor's quality control at the Vendor's facilities when necessary.

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The CLIENT/EPC CONTRACTOR and/or the third party reserve the right to inspect and independently test all of the materials in Vendors and Sub-Vendor's works.

6. At each witness inspection, the Vendor shall submit the inspection and test record/certificate for both witnessed and non-witnessed at his visit to the CLIENT/EPC CONTRACTOR and/or third party inspection agency.
7. Test equipment such as test gauges shall be calibrated at intervals not exceeding six months and the results shall be recorded.
8. When the witnessed inspection and test by the CLIENT/EPC CONTRACTOR are required, the Vendor shall note the following :
  - The Vendor shall provide all test equipment and facilities required for the witness inspection and test at his cost.
  - The Vendor shall furnish the suitable number of assistants to execute the inspection and test at his cost.
  - The Vendor shall submit the final "Test Report" confirming that the equipment/material is inspected and tested in accordance with the applicable documents in the relevant specifications.
  - The witnessed inspection and tests do not relieve the Vendor of his responsibility.
  - Shop witness shall be carried out in accordance with the documents approved by EPC CONTRACTOR. Any witness inspection and tests carried out without approved documentation shall be invalid.
  - The Vendor shall appoint the services of Approved Third Part Authorities (TPA) from Approved Vendor List to perform inspection and certification functions as defined in approved Vendor Inspection and Test Plan.
  - Approval, recommendation and clearance given by TPA shall not relieve Vendor of his ultimate responsibility for properly complying with his entire obligation under the Purchase Order and CONTRACT
9. New brand certified material shall be used
10. Pre-shipment inspection of the packing and marking shall be carried out before any shipment by an approved Third Party Agency assigned by EPC CONTRACTOR. In case, any export licenses and/or other necessary permits, authorizations etc., are required by



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authorities in the exporting country, then the Vendor shall obtain such export licenses, permits, authorizations etc. prior to shipment at own cost and risk.

11. The EPC CONTRACTOR shall take every necessary measure to ensure that his Vendor or Sub-Vendor strictly follows fabrication instructions and codes specified in the Contract, and that the quality of workmanship meets acceptable levels to enable each item to be produced in accordance with the qualitative and quantitative standards expressed in the Contract.
12. The CLIENT/EPC CONTRACTOR may appoint representatives or third parties to act as its representative to witness inspection and testing during manufacturing and/or prior to dispatch. Access to the workshops of the Vendor or Sub-Vendor shall be provided to the CLIENT/EPC CONTRACTOR'S representative for the purpose of such inspection, testing and ascertaining the progress of the manufacturing and fabrication. The Vendor's and Sub-Vendor's manufacturing methods and practices shall also be subject to inspection by the CLIENT/EPC CONTRACTOR or it's representative and such Vendor or Sub-Vendor shall, upon request, submit relevant data and documents for inspection.

## 6.2 Quality Management System

1. The Vendors shall ensure that all stages of the Work are controlled in accordance with a Quality System that complies with all applicable elements of ISO 9001: 2015 series or local equivalent with the additional requirements specified herein.
2. Should the Vendor be unable to comply with the above requirements, or with any other requirement specified herein, it shall so advise CLIENT/EPC CONTRACTOR and shall state its alternative proposal for assuring the quality of the equipment scope of supply.
3. Vendor shall submit EPC CONTRACTOR Quality Assurance Manual or Quality Assurance Plan. If Vendor is certified under ISO 9001: 2015 by a recognized certification body, a copy of the certification shall be submitted.
4. CLIENT/EPC CONTRACTOR reserves the right to evaluate Vendor's and Sub-Vendor' Quality Management system documentation to determine if the system meets the PROJECT requirements.

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5. CLIENT/EPC CONTRACTOR reserves the right to carry out appraisals and/or quality audits of the Vendor and their Sub-Vendor Quality Management systems at any time following placement of the Purchase Order. The purpose of this will be to verify compliance with and maintenance of the quality system in accordance with the Purchase Order requirements.
6. The Vendor shall implement a quality assurance plan.

The quality plan applied to the scope of supply shall include as follows:



- QA/QC organization and procedures that shall be submitted for approval.
- Typical Inspection and Test Plan in the production process proposed to the EPC CONTRACTOR for witness or approval of particular activities.
- Production schedule indicating main quality manufacturing processes, inspection and tests.
- Qualification of all personnel performing NDT to be reviewed by the Inspector.
- The Vendor shall provide the description of the following quality activities:
  - Sub-Vendor product quality
  - Quality check and identification of the materials and equipment entering in the manufacturing shop.
  - Calibration of test instruments and equipment

### 6.3 Surveillance Level

Based on a criticality, surveillance levels of the equipment to be manufactured are specified by CLIENT/EPC CONTRACTOR. Levels of inspection will be adjusted to take into account the effectiveness of Vendor Quality Management System.

## 7 Health, Safety and Environment (HSE) AT Vendor's Works



1. The Vendor shall carry out assessments of the risks for site work, in the processes carried on materials used, or any risk arising from their work activities, not only to the health and safety and welfare of their own employees and the general public, but also the effects that their process/materials or work activities may have upon those employees/contractors of CLIENT/EPC CONTRACTOR.

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2. The Vendor is required to meet applicable recognized HSE, Iranian conformity standards or other internationally recognized technical and HSE conformity standards, approved by CLIENT/EPC CONTRACTOR.

In addition, the Vendor shall identify the presence in the equipment scope of supply or services supplied of any chemical or material that is potentially harmful to the health or safety of people or the environment. For each of these substances, the Vendor shall give the CLIENT/EPC CONTRACTOR a Material Safety Data Sheet (MSDS). The Material Safety Data Sheet shall be prepared in accordance with ISO 11014-1: latest and state the main physical and chemical properties of the substance, its harmful nature, and precautions necessary to ensure its safe use and eventual disposal

3. All Inspectors/Auditors/Visitors of CLIENT/EPC CONTRACTOR must be given access to the necessary Personal Protective Equipment (PPE) if the environment they are entering require the wearing of such equipment.
4. All Inspectors/Auditors/Visitors of CLIENT/EPC CONTRACTOR shall be made to sign in on arrival and sign out on departure and, ideally, be given basic instruction on what to do in the event of an emergency.
5. Vendor shall protect all Inspectors/Auditors/Visitors of CLIENT/EPC CONTRACTOR in his workplace of any Infection and epidemic.
6. All Inspectors/Auditors/Visitors of CLIENT/EPC CONTRACTOR shall be briefed by Vendor about identified hazards before entering the workplace.
7. All Inspectors/Auditors/Visitors of CLIENT/EPC CONTRACTOR shall be briefed by Vendor about identified hazards before entering the workplace.
8. The following substances shall not be used:
  - Asbestos.
  - Cadmium plating of bolts or components.
  - Halon for firefighting.
  - Chlorofluorocarbon (CFC) chemicals unless no alternative chemical is available.
  - Any carcinogenic material such as Ascarel oil (PCB) or Cr6+(CR VI)

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9. For other substances and materials, Vendor shall follow updated Threshold Limit Values (TLVs) issued by ACGIH.
10. CLIENT/EPC CONTRACTOR reserves the right to assess Vendor, by means of periodic inspections to verify full compliance with the above.
11. Vendor is required as a condition of the CONTRACT to submit the following and maintain for the duration of any contract subsequently awarded:
  - An HSE program
  - Accident statistics for the past five years, including any fatalities, lost time injuries, OGP/OSHA recordable injuries and environmental accidents.
  - Details of Prohibition Notices, Safety Alerts or any criminal proceedings against Vendor by any government agency relating to any accident at work or damage adverse impact to the environment, served in the last five years and including any pending time.
  - Details of any accidents resulting in damage to the environment including pollution of the air, water sources or land; and any remedial actions taken.