



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض و ابنیه تحت الارض

عمومی و مشترک



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

SPECIFICATION FOR LV INDUCTION MOTORS

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D03	0010	SP	EL	000	PEDCO	GNRAL	BK

شماره صفحه: ۲ از ۷

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1.0 INTRODUCTION

Binak oilfield in Bushehr province is a part of the southern oilfields of Iran, is located 20 km northwest of Genaveh city.

With the aim of increasing production of oil from Binak oilfield, an EPC/EPD Project has been defined by NIOC/NISOC and awarded to Petro Iran Development Company (PEDCO). Also PEDCO (as General Contractor) has assigned the EPC-packages of the Project to "Hirgan Energy - Design and Inspection" JV.

GENERAL DEFINITION

The following terms shall be used in this document.

CLIENT:	National Iranian South Oilfields Company (NISOC)
PROJECT:	Binak Oilfield Development – General Facilities
EPD/EPC CONTRACTOR (GC):	Petro Iran Development Company (PEDCO)
EPC CONTRACTOR:	Joint Venture of : Hirgan Energy – Design & Inspection(D&I) Companies
VENDOR:	The firm or person who will fabricate the equipment or material.
EXECUTOR:	Executor is the party which carries out all or part of construction and/or commissioning for the project.
THIRD PARTY INSPECTOR (TPI):	The firm appointed by EPD/EPC CONTRACTOR(GC) and approved by COMPANY (in writing) for the inspection of goods.
SHALL:	Is used where a provision is mandatory.
SHOULD:	Is used where a provision is advisory only.
WILL:	Is normally used in connection with the action by COMPANY rather than by an EPC/EPD CONTRACTOR, supplier or VENDOR.
MAY:	Is used where a provision is completely discretionary.

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2.0 SCOPE

This document gives amendment and supplement to IPS-M-EL-131 (2) "Materials and Equipment Standard for Low Voltage Induction Motors" used in "Binak Oilfield Development".

3.0 NORMATIVE REFERENCES

3.1 Local Codes & Standards

No amendments or supplements are to state.

3.2 International Codes & Standards

No amendments or supplements are to state.

3.3 The Project Documents

Not applicable

3.4 Environmental Data

The installation site is in south of Iran with corrosive, hot and high humid atmosphere. Therefore, all equipment shall be designed to fully comply with the performance specification in the environmental conditions. For more information refer to "Process Basis Design; section 11".

3.5 Guidance for Use of This Document

The amendments/supplement to the related IPS Standard(s) given in this document is directly related to the equivalent sections or clauses in the IPS Standard(s). For clarity, the section and paragraph numbering of the IPS Standard(s) has been used as long as possible. Where clauses in IPS are referenced within this document, it shall mean those clauses are amended by this document. Clauses in "IPS" that are not amended by this document shall remain valid as written.

For ease of reference, the clause or section numbering of the related IPS Standard(s) has been used throughout this specification. For the purpose of this specification, the following definitions shall hold:

Sub. (Substitution): The IPS Std. clause is deleted and replaced by a new clause.

Del. (Deletion): The IPS Std. clause is deleted without any replacement.

Add. (Addition): A new clause with a new number is added.

Mod. (Modification): Part of the IPS Std. clause is modified, and/or a new description

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and/or condition are added to that Clause.

3.6 Order of Precedence

In case of conflict between requirements specified herein & the requirements of any other referenced document, the most approved stringent requirements of below listed items shall be considered based on the approval given by the owner's representative:

- Purchase order
- Material Requisition
- MTO & Data Sheet
- This Specification
- Drawing & Other Specification
- Reference Project Specification
- Iranian Petroleum Standard (IPS)
- Reference international Code & Standards

When the term "Authorized", "Authorization", "Approval", or "Approved" are used in this specification, it shall mean authorization or Approval from OWNER.

In case of any conflict between the project documents, the most stringent one shall be considered.

4.0 UNITS

No amendments or supplements are to state.

5.0 SERVICE CONDITION

5.4 The maximum and minimum ambient air temperature, relative humidity and the elevation of the location in which the motor will be installed shall be accordance with para of this document. (Mod)

6.0 AREA CALSSIFICATION

No amendments or supplements are to state.

7.0 GENERAL REQUIREMENT

7.1.5 The voltage of the motors 0.4 kW up to 150 kW shall be 400 V three phase. The voltage of 150 kW motors can be selected as 400 V or 3300 V depending on client approval. For the specification of medium voltage motors refer to IPS-M-EL-132(2). (Mod)

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7.1.6 Motors shall be capable of operating continuously at rated torque at any frequency between $\pm 5\%$ of the nominal frequency together with a voltage variation of $\pm 10\%$. (Mod)

8.0 CONSTRUCTION REQUIREMENTS

8.1.4 The minimum degree of mechanical protection of electrical motors, specified according to IEC 60034-5, shall be: (mod.)

Outdoors installation protected with canopy:

Motors and auxiliaries IP 54W

Terminal box and bearing housings IP 55W

Outdoors installation Unprotected IP 65W

8.6.2 Metallic fans made of aluminum, cast iron or steel is preferred. Plastic or non-metallic fan housing is not acceptable. (Mod)

8.7.12 In case of single core cables terminal box shall be made of non-magnetic material. (Add)

9.0 TEST & INSPECTION

No amendments or supplements are to state.

10.0 SPARE PARTS

No amendments or supplements are to state.

11.0 DOCUMENTATION

No amendments or supplements are to state.

12.0 SHIPMENT

No amendments or supplements are to state.

13.0 GUARANTEE

No amendments or supplements are to state.