

 <p>NISOC</p>	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض</p> <p>خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک (قرارداد BK-HD-GCS-CO-0023_00)</p>																									
<p>شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴</p>	<table border="1"> <tr> <th colspan="8">HYDROSTATIC TEST PROCEDURE</th> </tr> <tr> <th>نسخه</th> <th>سریال</th> <th>نوع مدرک</th> <th>رشته</th> <th>تسهیلات</th> <th>صادر کننده</th> <th>بسته کاری</th> <th>پروژه</th> </tr> <tr> <td>V00</td> <td>0005</td> <td>PR</td> <td>QC</td> <td>120</td> <td>KP</td> <td>GCS</td> <td>BK</td> </tr> </table>	HYDROSTATIC TEST PROCEDURE								نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه	V00	0005	PR	QC	120	KP	GCS	BK	<p>شماره صفحه: 2 از 5</p>
HYDROSTATIC TEST PROCEDURE																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه																			
V00	0005	PR	QC	120	KP	GCS	BK																			

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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.



2.0 GENERAL DEFINITION

The following terms shall be used in this document.

CLIENT:	National Iranian South Oilfields Company (NISOC)
PROJECT:	Binak Oilfield Development – Supply Of Fire Water Pumps
EPD/EPC CONTRACTOR (GC):	Petro Iran Development Company (PEDCO)
EPC CONTRACTOR/PURCHASER:	Joint Venture of: Hirgan Energy – Design & Inspection (D&I) Companies
VENDOR:	Kalaye Pump Company
EXECUTOR:	Executor is the party which carries out all or part of construction and/or commissioning for the project.
TPI:	Third Party Inspector.
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 CLIENT rather than by an EPC/EPD CONTRACTOR, supplier or VENDOR.
MAY:	Is used where a provision is completely discretionary.

3.0 SCOPE

This executive method aims to illustrating the way of the test and testing manufactured/repaired pumps in the factory in order to achieving assurance about its alignment to those determined characteristics as well as its quality.

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4.0 USAGE DOMAIN

The usage domain of this executive instruction includes all projects of Kalay-E-Pump Company and other common productions.

5.0 LIABILITIES

The quality control director is responsible about executing of this instruction, furthermore product supervisor and technical office representative are present in the examination (Test) steps entirely, as auditors.

6.0 REFERENCES

The testing operation of pumps/Electro pumps/Diesel Pumps belonging to Kalay-E-Pump Company is accomplished based on derivate tests of creditable global collected standard for centrifugal and fire fighting pumps and gathered movements. (API 610, NFPA 20)

7.0 PROCEEDING DESCRIPTION

Leakage test before hydrostatic test is essential for all pumps. The hydrostatic test for all pumps, will carried out according to determined case provided in the contract or customer application.

7.1. Hydrostatic test



In order to be sure of pump body quality, hydrostatic test is offered to the pump bodies with approximately 1.5 time more than maximum allowable working pressure (MAWP), which is determined according to class and material of the pump casing. As the MAWP for fire fighting pumps is 15bar, this test is carried out in 22.5 bar pressure. Test pressure shall not be less than one and half times the sum of the pump's shutoff head plus its maximum allowable suction head, but in no case shall it be less than 250 psi (17.24bar).

7.1.1 .Hydrostatic test shall be carried out before painting and after machining.

7.1.2 .Before starting test operation, it shall be checked whether the caps of input-output flanges and testing pump's casing are closed.

7.1.3 .Fill out the casing of testing pump with industrial or city water, using equipment. The chloride content of liquids used to test austenitic stainless steel material shall not exceed 50mg/kg. Air vacuuming operation is carried out simultaneously; move the casing in different directions to be sure of air vacuumed condition to evacuate inner air completely.

7.1.4 .To adopt desirable pressure, after filling out the casing, exposed the body to determined pressure, using devices and considering pressure gauge, which assembled on the casing.

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	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	
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7.1.5 .Test time is at least 30 min and it is successful if there is no failure, leakage, or pressure loss from specified value.

7.1.6 .Offload the hydraulic water from casing. All parts of casing shall be cleaned by soap water.

7.1.7 .Hydrostatic test report will be issued after test.