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## SHAKTI PUMPS (INDIA) LIMITED

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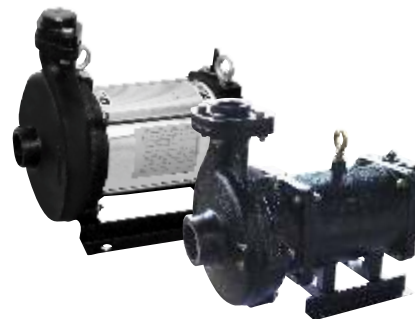
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## INSTALLATION & OPERATING INSTRUCTIONS



**OPENWELL PUMPS**

SHOSC SERIES



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## INSTALLATION AND OPERATING INSTRUCTIONS

### 1. INTRODUCTION

Please follow the instructions given in this manual before the installation and maintain your submersible pump to get reliable operation.

When you order spare parts in future, please inform the nameplate details i.e. Material Code, Serial Number, Motor Type, Pump Type and other data.

### 2. APPLICATION

SHOSC pump is applicable for the domestic water supply, industrial & public water supply schemes where the pump is submerge condition.

### 3. DELIVERY & STORAGE

SHOSC pump are supplied from the factory in proper packing in which they should remain until they are to be installed.

During unpacking and prior to installation, care must be taken when handling the pump to ensure that the pump should be place horizontally.

### 4. INSTALLATION

#### 4.1. Operating Condition

- 4.1.1. SHOSC pumps are suitable for thin, non – explosive liquid, not containing Solid particles, the liquid must not attack the pump material chemically, when pumping liquids with density and of viscosity higher than that of water, suitability of motor winding with correspondingly higher outputs must be checked, if required.



## INSTALLATION AND OPERATING INSTRUCTIONS

### 4.2. Preparation

Before starting work on the pump, make sure that the electricity supply has been switched off and that it cannot be accidentally switched on.

#### 4.2.1. Checking of liquid in motor

The submersible motors are factory –filled with a special non poisonous liquid, which is frost – proof down to -20 c.

**Note:-**

The level of the liquid in the motor must be checked and the motor must be refilled, if required, clean water may be used for refilling.

#### 4.2. 2.Water Filling



Filling the Motor with **CLEAN DRINKING** water

#### 4.2.3. Water Filling Instructions

- 4.2.3.1. Open both the water filling plugs (A) and (B).
- 4.2.3.2. Put the funnel in plug hole (A).
- 4.2.3.3. Use only clear cold water for filling.
- 4.2.3.4. Pour the water till the water overflows in plug hole (B).
- 4.2.3.5. Wait till all the air bubbles are escaped from the inside the motor.
- 4.2.3.6. Close both the plug tightly.

## INSTALLATION AND OPERATING INSTRUCTIONS

### 4.3. GUIDELINES FOR ELECTRICAL CONNECTIONS:

- 4.3.1. Proper earthing connection should be made at the bolts provided for earthing.
- 4.3.2. Proper size of cable should be used between supply and motor terminals to minimize voltage drop and to carry full load current as well as the maximum current in the operating voltage range specified.
- 4.3.3. Nuts at terminal should be tightened properly.
- 4.4. Only recommended pipe size should be used. Small pipe size, nipples, elbows, bends all give rise to head losses and should either be eliminated or used sparingly.
- 4.5. Provide suitable devices like non-return valve, air valve, surge tank etc. to avoid water hammer problems in long pipeline systems.
- 4.6. Check the direction of rotation by observing rated discharge, if found low discharge, interchange any two of the supply leads.
- 4.7. Select suitable DOL/STAR DELTA Starter with correct range of over load relay and it should be suitable for low voltage operation also.
- 4.8. Operation coil of contactor in the Starter should be capable of operating with wide voltage variations.

## INSTALLATION AND OPERATING INSTRUCTIONS



## Trouble shooting

Trouble	Reason	Remedy/ Solution
No Power in main control panel	No supply from mains	Check for loose connection & input supply voltage/ frequency
	Fuse is melted	Replace with fuse having adequate resistance. Check earthing also
	Circuit breaker is tripped	correct circuit/ earthing for any current leakage
Pump Does Not Work	Capacitor is failed	Replace with new capacitor of correct capacity
	Pump is jammed	Repair/ overhaul the pump set. Ensure operation once in a day
	Rotor shaft is seized	Repair/ overhaul the motor & fill clean water. Ensure operation once in a day
Pump works but does not give rated water discharge	Strainer is clogged	Clean it. Replace, if damaged
	Total head is more	Select right pump of required capacity
	actual speed is less than rated speed	Ensure rated voltage/ frequency as specified on nameplate
	water yield reduced.	Ensure required water level. Use Auto level controller if yeild is low
	Low voltage supply	Select right pump of required capacity

## INSTALLATION AND OPERATING INSTRUCTIONS

### WARRANTY CERTIFICATE

Dear Customer,  
Congratulation, for purchasing our product.

Pump and Motor are warranted against defects in workmanship and material under normal use, service & specified duty conditions. We provide one time warranty service for twelve months from the date of purchase by the first user.

Shakti Pumps (I) Ltd warrants this product to be free from damage/ defects in material and workmanship under normal use and service for Twelve Months from the date of purchase by the first user. The user shall produce valid and original copy of invoice for availing warranty. The user shall carry defective pump set to nearest authorized service center

This warranty does not cover any loss or damage/ defect of any nature resulting from wrong product selection/ improper installation or installation by unauthorized/ untrained person/ sandy condition/ dry running and improper use of the pump sets.

The warranty also does not cover consequential losses/ damages arising due to failure of pump/ motor.

Our obligation is limited to recycling or repairing or replacing product/ parts ex-factory. Equipment for repairs should be returned free of cost to us.

The foregoing is subject to the provision that the user does not open the unit and make any change or repair without prior approval of authorized service center during the warranty period.

This warranty excludes every condition whether statutory or otherwise, whatsoever not herein expressly set out.

Customer name: .....Customer's phone:.....

Customer Address: .....

Invoice number: .....Invoice date:.....

Model Name: .....Model Serial Number:.....

Dealer's Name: .....Dealer's phone:.....

Dealer's Address:.....

Dealer Seal & Signature



## INSTALLATION AND OPERATING INSTRUCTIONS

### INSTALLATION REPORT

Customer's Name: - \_\_\_\_\_

Customer's Address: - \_\_\_\_\_

Customer's Ph. No.: \_\_\_\_\_

Dealer's Name: - \_\_\_\_\_

Dealer's Address: \_\_\_\_\_

Dealer's Ph. No. \_\_\_\_\_

Pump Model:- \_\_\_\_\_ S.L.No: \_\_\_\_\_

Project/Application: \_\_\_\_\_

Pressure In Kg:- \_\_\_\_\_ Flow in m<sup>3</sup>/hr: \_\_\_\_\_

Liquid:- \_\_\_\_\_ Temp.: \_\_\_\_\_

Voltage:- \_\_\_\_\_ Current: \_\_\_\_\_

Packing Condition:- \_\_\_\_\_

Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Date:- \_\_\_\_\_

Customer's Signature

**BOOK-POST**

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Stamp

