



# NEW ERA ENGINEERS & TRADERS

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## INSTALLATION OF PUMPSET

### WRONG

### RIGHT



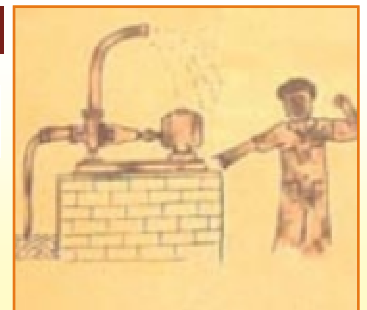
#### LOCATION

The pumpset should be located as near the liquid source as possible and ample space should be provided for easy maintenance.



#### FOUNDATION

The foundation must be sufficiently strong to absorb the vibrations and it should be isolated such that vibrations from other machinery installed in pump House should not disturb the set.



#### ALIGNMENT

Pump and prime-mover mounted on common base-plate duly aligned are supplied by the manufacturer before despatch. However alignment must be checked at site before commissioning the set.



#### LEVELLING THE UNIT

The coupling halves of the set should be disconnected while leveling. The baseplate should be supported evenly to avoid distortion.



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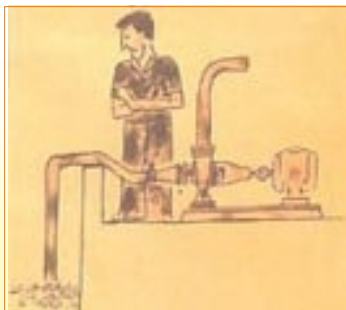
### GROUTING

After the alignment is completed the foundation bolts should be tightened evenly and grouting may be completed. Allow about 48hrs for Setting, seasoning of the foundation.



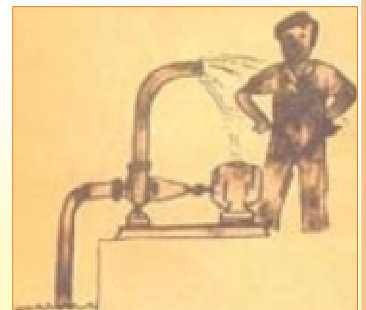
### PIPING

Suction and delivery pipe size should be bigger than size of pump nozzles to reduce the frictional losses. Avoid short bends. Both the pipings must have independent support to avoid undue strain on the pump nozzles. Suction and delivery pipe strains cause the distortion in pumpset and may result in wearing of ball bearing and bending of pump shaft.



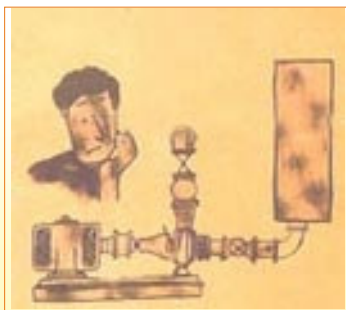
### PIPING

Suction piping should be correctly done. See that the foot valve is properly working and dirt-free. The suction piping should be leakproof to facilitate trouble-free priming.



### DELIVERY PIPING

A non-return valve and sluice valve should be installed in delivery pipeline to protect the pump from excessive back pressure.



### DELIVERY PIPING

Equalising line (Liquid line) should be provided in case pump draws liquid from a system under vacuum.

