



NATIONAL PETROCHEMICAL COMPANY
STANDARDS

ENGINEERING STANDARD
FOR
RAW WATER SYSTEM

NPCS-ES-GC-11

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1 SCOPE

This standard describes the engineering guide lines for designing the raw water supply system for industrial complex.

2 CODES AND STANDARD

- Rational Methods.
- Hydrulic Institiutes Standards.

3 DESIGN DATA

3.1 WATER REQUIREMENT

Quantity of raw water required for the plant shall be established after detailed study and shall include the requirement of water for following services mainly:

- a) Service water requirement.
- b) Drinking water requirement.
- c) Cooling water make-up requirement.
- d) Fire water make-up requirement.
- e) Process water requirement (DM water, etc.).
- f) Boiler feed water.

3.2 WATER STORAGE REQUIREMENT

Generally, the raw water storage are provided equivalent of one day water requirement. However, the storage capacity can be varied depending upon the maximum closure period and dependability of the source.

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