



NATIONAL PETROCHEMICAL COMPANY
STANDARDS

CONSTRUCTION STANDARD FOR SURVEYING

NPCS-CS-GC-01

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1 GENERAL

'The intent of this standard is to cover the basic requirements for conducting the land surveys to generate requisite information for the design and field engineering activities.

2 SCOPE

This standard covers the land surveys consisting of the following works.

Preparation of contour survey maps, with spot levels.

Establishment of base line and grid system for defining the co-ordinates of the various areas, and their relation to UTM grid and NCC bench marks.

Preparation of survey maps.

Two set of survey maps, shall be prepared as below:

a) Overall layout of the area to a scale of 1 : 2000 with spot levels @ 50 m C/C and a contour interval of 0.5 m.

b) Detailed survey maps in 1 : 500 scale with spot levels @ 25 m C/C and countor interval of 0.5 m C/C.

2.1 The grid system shall be established by constructing cement concrete pillars/brick pillars/stone masonry pillars @ 400 m C/C along the base line and at 200 m C/C at right angles to the base line.

2.2 The survey maps shall show all cross drainage works, U/G cables, pipes, etc., irrigation structures, building, trees, electric/Telegraphic poles, transmission towers, or any other prominent physical feature.