

1. INTRODUCTION :

1.1. GROUND WATER RESERVOIR:

1.1.1. Change Durgapur Steel Plant is getting water for industrial purpose from DVC water supply canal, maintained by DVC. Water is lifted from the canal through a set of pumps installed at Canal Pump House and is stored in the Ground Water Reservoir (GWR). The reservoir was put into operation in 1959 in order to reserve water drawn from canal and allow it for settling to reduce turbidity. Settled water is pumped to plant for industrial and domestic water through a set of pumps installed at Work Pump House. Since inception it is functioning satisfactorily and taking care of any fluctuation in supply/demand of water.

- The reservoir was designed
 1. to hold total 1.925 Million Cubic meter (Mm³) of water, out of which 1.05 Mm³. was live storage capacity and
 2. 0.85 Mm³ was dead storage capacity. Due to topography of the bottom of the reservoir,
 3. large volume of water remains trapped in localized deep pockets and cannot be drawn below certain levels,
 4. This has formed the dead storage volume. Dead storage space is utilized for siltation and in case of extreme situation,

5. part of this capacity can be utilised, though the quality of water at this level of reservoir deteriorates drastically.

i. WS1

ii. WS2

iii. Ws3

iv. WS4

v. WS5

1.1.2. Scope : For last few years it has been observed that supply of water through DVC canal has become erratic. Severe shortage of water in the canal in several occasions is putting DSP in a great risk of disruption in production. Frequency and duration of the disruption is increasing in each passing year.

I. Ds types

- 1a
- 2a
- 3a
- 4a – Must be used carefully
- 5b (Table)

Sl.No	Clause	Clause decs
1	Ws	Ws-101
2	DS	DS-102

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