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 resei'voir 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.

1.1.2. The reservoir was designed to hold total 1.925 Million Cubic metei (Mm3) of water, out of which 1.05 Mm3. was live storage capacity and 0.85 Mm3 was dead storage capacity. Due to topography of the bottom of the reservoir, large volume of water remains trapped in localized deep pockets and cannot be drawn below certain levels, This has formed the dead storage volume. Dead storage space is utilized for siltation and in case of extreme situation, part of this capacity can be utilised, though the quality of water at this level of reservoir deterioIates drastically.

1.1.3. As a result of continuous siltation due to settling of turbid river

water and decomposition of under-water vegetation at the bottom of water surface of the reservoir, storage capacity of the reservoir has reduced significantly. Even some ot' the areas have formed high land which remains exposed above top water level. Excavation of the high land areas of the reservoir was taken up in the year 2017-18 and live storage capacity was restored by 0.24 Mm . Present live storage capacity is 1.0l5Mm and dead storage capacity is 0.720Mm

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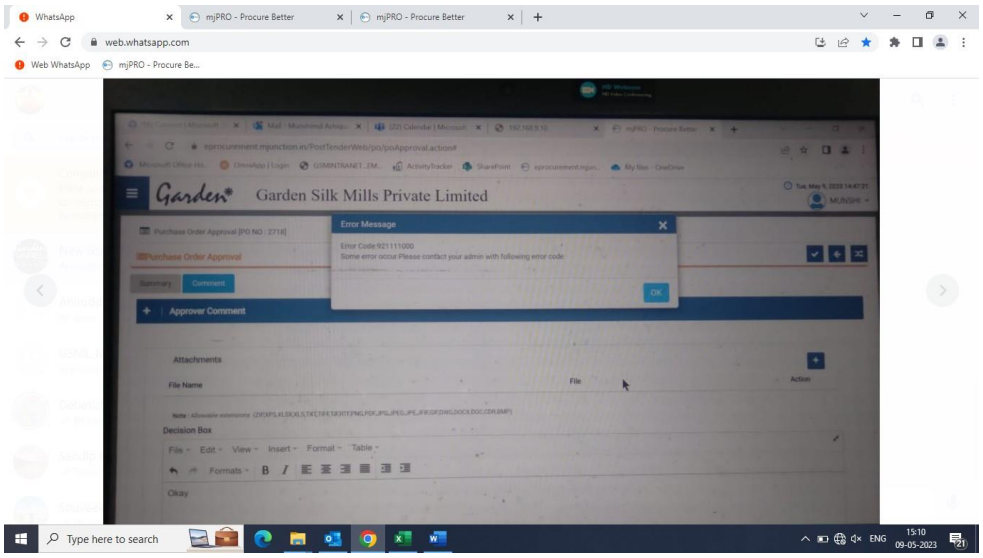

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