

6. UTILITY PLANNING: WATER SUPPLY

6.1 Water Requirements

The asphalt mixing plant has been designed in such a way that water utilisation is optimised for the processes. Thus all process water will be recycled back to the production stages once they undergo pre-treatment. It has been estimated that the daily water consumption for the plant will be around 1 m³. An extra of about 3 m³ of water will also be made available for domestic purposes. It is worth to note that potable water will be available on the site at all times and that all the employees will have unlimited access to the different potable water access points.

6.2 Water Storage Tanks

Water storage tanks of 10 m³ capacity will be setup on the proposed site for the routine operation of the plant. The storage tank will offer a buffer stock equivalent to 2 days' of water supply for the processes along with a separate fire fighting water reserve of the order of 15 m³.

In general, buffer storage of water is of utmost importance for any industrial facility in order to provide reliability in supply to the regular operations of the plant. Furthermore, it will cater for any potential cut in water supply during acute drought periods and as a result of unforeseen circumstances.

6.3 Water Supply Network

The surrounding industrial activities of the proposed site already have a well-established water supply network and as such water requirement for the proposed activity will be fully achieved. A 200mm diameter DI/AC main conveys water from to the industrial activities in the neighbourhood. Thus, the promoter will easily have access to water supply after applying to the CWA. No difficulty is likely to be encountered for the setting up of water supply network for the proposed premises. The Central Water Authority's (CWA) regulations as regards to the necessary applications for carrying out the off-site works, the water tapping connection and their specifications for pipe-laying will be strictly adhered to.

6.4 Water Conservation

As mentioned, the process water will be recycled back to the process after pre-treatment and therefore less water will be utilised for the processes. This will ensure that water is judiciously being utilised and conserved. The promoter will make sure that all water piping are in good operating state and any leaks detected will be immediately repaired.