LA NICOLIERE RESERVOIR

<table>
<thead>
<tr>
<th>FEEDER CANALS: RIVER DIVERSIONS</th>
<th>LENGTH (Km)</th>
<th>RIVER</th>
<th>DESIGN CAPACITY (m³/s)</th>
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<tbody>
<tr>
<td>L.N.F.C</td>
<td>27</td>
<td>G.R.S.E And R. Rempart</td>
<td>4.25</td>
</tr>
<tr>
<td>CHEVRETTE Div *</td>
<td>0.47</td>
<td>CHEVRETTE &amp; GONTRAN</td>
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<tr>
<td>VACOAS Div *</td>
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<td>VACOAS</td>
<td>1.68</td>
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<tr>
<td>FRANCOISE Div *</td>
<td>4.1</td>
<td>FRANCOISE</td>
<td>0.42</td>
</tr>
</tbody>
</table>

* diverted to La Nicolière Feeder Canal

History Notes

La Nicolière Reservoir, constructed in the year 1929 across River du Rempart, near Grande Rosalie, is one of the main sources of water supply to the northern districts of Mauritius and part of Port Louis. Its water is used for domestic, industrial and irrigation.

The reservoir has a storage capacity of 5.26 Mm³. The annual average regulated yield from the reservoir of the order of 30 Mm³ has increased by about 41 Mm³ after the construction of Midlands Dam in December 2002. It is fed by the La Nicolière Feeder Canal (LNFC), River du Rempart and eleven small streams.

In December 2002, the Midlands Dam was constructed to serve as a buffer reservoir to La Nicolière Reservoir.

Salient features of La Nicolière Reservoir

Location : On River du Rempart (North), in the district of Pamplemousses about 5 kms North East of Port Louis.

Year of Construction : 1929

Catchment Area : 7.75 km²

Reservoir Capacity : 5.26 Mm³ after hydrographic survey of 1996

Maximum water spread area : 1.08 km²

Full Reservoir Level : 249.02 m (amsl)

Type of Dam : Homogenous Earthen Embankment

Maximum height of dam : 13.5 m above ground level

Length of Dam : 819.08 m

Type of spillway : Ungated ogee shaped concrete spillway

Width of Spillway : 36.58 m (2 bays of 18.29 m each)

Purpose : Potable, industrial and irrigation water supply

Feeders : (i) La Nicolière Feeder Canal from GRSE, designed capacity of 4.25 m³/s and of length 27 km

(ii) River du Rempart

(iii) Streams in local catchment

Regulated Annual Yield : 30 Mm³ prior to Midlands dam and 71 Mm³ after Midlands Dam.
Fig. 5.3 Daily and Normal Storage Variation for La Nicoiere