## Proposed Construction – Clarence Basin / Copeton Dam Concept 2nd June, 2017

- Construct the Nymboida / Blicks Dam. The dam location is just downstream of where the Blicks River joins the Nymboida River, at Platypus Camp Ground. The elevation is 420M. The dam capacity 952,000 ML.
- 2. Bore a tunnel from the Nymboida / Blicks Dam to Marengo Creek, which flows into the Guy Fawkes River. This tunnel is 3.6M in diameter. The tunnel length is 28.8Km.
- Construct the Newton Boyd South Dam. The dam location is downstream of the Sara River and Guy Fawkes River (Boyd River). The elevation is 240M
- 4. Construct the Newton Boyd North Dam. The dam location is downstream of the Mann River and Henry River. The elevation is 250M
- 5. Connect the Newton Boyd South and North Dams. Excavate an open cut channel. The channel is 500 meters long and 52 meters deep.
- 6. Construct the Glen Elgin Dam. The dam location is downstream of the Timbarra River. The elevation is 850M. The dam capacity 80,000 ML.
- 7. Install a pipeline from the Newton Boyd North Dam to the Glen Elgin Dam. The pipeline will pump the water up to the Glen Elgin Dam, elevating the water 485M. The pipeline will be 17km in Length.
- 8. Bore a tunnel from the Glen Elgin Dam to Tingha, discharging into Copes Creek. Copes Creek flows into the Copeton Dam. This tunnel is 9.6M in diameter. The tunnel length is 102km.
- 9. Construct a five new Hydro Power Stations. The locations are as follows:-
  - Hydro Power Station1. Located at the exit of the tunnel from the Nymboida / Blicks Dam, on the Marengo Creek at the Guy Fawkes River.
  - 2. Hydro Power Station2. Located on the Newton Boyd South Dam Wall. Prior to water flowing into the Boyd River.
  - 3. Hydro Power Station3. Located on the Newton Boyd North Dam Wall. Prior to water flowing into the Mann River.
  - 4. Hydro Power Station4. Located on the pipeline between Newton Boyd North Dam to the Glen Elgin Dam.
  - 5. Hydro Power Station5.Located at the exit of the tunnel from the Glen Elgin Dam, near Tingha Township.

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