

Name of Work: **Improvement of Drainage Path of Kalisindh River near Balinda Ghat for Prevention of Floods in Jhalawar Town**

Justification of Work

Jhalawar town is mainly situated on the banks of Kalisindh & Ahu river. Both the rivers are tributary of river Chambal and join near Gagron fort of Jhalawar. The river after confluence point traverses through a nearly narrow vertical Gorge. The approximate length of Gorge is nearly 2.0 Kms.

During the times of high flood, either in river Kalisindh or in river Ahu, the available river section at Balinda Ghat unable to pass the full discharge without causing afflux & thus causes back water effect which in turn causes increase in water level near Jhalawar town which in turn results in flooding of the low-lying colonies & agriculture fields as well.

Due to this constricted flow and back water effect from Balinda Ghat, there is also back flow in the various local streams joining Kalisindh river which further causes flooding of the areas situated near these local streams viz Khandiya near Dhanwara colony and near sewerage treatment plant.

Earlier in year 2006-07, studies were conducted for widening of Balinda Ghat to protect Jhalawar town from flood by Water Resources Department.

During event of heavy rainfall in the catchment areas of Ahu & Kalisindh river resulted in maximum inflow which failed to pass through the gorge at Balinda Ghat and thus resulted in flooding of Jhalawar city & nearby villages

The proposal for widening of Balinda Ghat was submitted to the Chief Engineer ID&R WR Unit JLN Marg Jaipur vide Additional Chief Engineer Water Resources Zone Kota letter no. Petition/276-282/ACE/WR/Tech/06/1228 dated 22.1.2007. But somehow the matter could not be finalized.

The hydrology of the project was examined at ID& R Organization Jaipur and vide Chief Engineer SWRPD (ID&R Wing) letter no. 178 dated 10.6.2016 the designed flood for such flood protection works has been estimated as 26467 cumecs.

To provide relief to the residents of Jhalawar town, the possible solutions are bifurcated into flowing sub works:

- **Part A** -Lowering sill level of Balinda Ghat
- **Part B** -Widening of existing constricted section of Balinda Ghat
- **Part C** -Partial Bypassing Balinda Ghat during events of high Flood
- **Part D** -Widening of two sharp turns on Kalisindh River at D/S of Balinda Ghat

Above said works are essential to prevent flooding of Jhalawar town during event of high floods either in Kalisindh river or Ahu river



Executive Engineer
Water Resources Project Division\
Jhalawar, (Raj.)