

Central Dam Safety Organisation  
 Dam Rehabilitation and Improvement Project (DRIP)  
**Training Programme on**  
**Design Flood Analysis from 09-12th July 2019 at Trivendrum, Kerala**  
 Organised by  
 Kerala Water Resource Department

Sr. No.	Topic	Faculty	Date	Time
<b>DAY-1</b>				
1.	Registration of Participants & Inauguration	-	09.07.2019	9:00 hrs to 9:30 hrs
2.	Introduction and Overview of Programme	-	09.07.2019	9:30 hrs to 10:00 hrs
3.	Projection system in GIS, Source of DEM, DEM Resolution	N.N.Rai Director, CWC	09.07.2019	10:00 hrs to 11:00 hrs
4.	Delineation of a single catchment area and estimation of physiographic parameters of catchment using ArcGIS	Kaushal Kumar Dy Director, CWC	09.07.2019	11:15 hrs to 12:15 hrs
5.	Estimation of physiographic parameters for catchment having multi sub-catchments using ArcGIS	Isly Issac Asstt Director	09.07.2019	12:30 hrs to 01:30 hrs
6.	Hands on Catchment delineation on ArcGIS for single catchment and multi-sub catchments	N.N.Rai Kaushal Kumar and Isly Issac	09.07.2019	14:30 hrs to 17:30 hrs
<b>DAY-2</b>				
1.	Unit hydrograph preparation using FER	Isly Issac Asst Director	10.07.2019	10:00 hrs to 11:00 hrs
2.	Grid point location, SPS/PMP and hourly distribution coefficient selection from PMP Atlas	N.N.Rai Director, CWC	10.07.2019	11:15 hrs to 12:15 hrs
3.	Design Flood estimation for single catchment	Kaushal Kumar Dy Director, CWC	10.07.2019	12:30 hrs to 01:30 hrs
4.	Hands on Unit Hydrograph and design flood computations	N.N.Rai Kaushal Kumar and Isly Issac	10.07.2019	14:30 hrs to 17:30 hrs
<b>DAY-3</b>				
1.	Channel routing by Muskingum method using HEC-HMS	N.N.Rai Director, CWC	11.07.2019	10:00 hrs to 11:00 hrs
2.	Reservoir routing by Modified puls method using HEC-HMS	N.N.Rai Director, CWC	11.07.2019	11:15 hrs to 12:15 hrs
3.	Design Flood Estimation using Quasi Distributed Model on HEC-HMS	Isly Issac Asst Director	11.07.2019	12:30 hrs to 01:30 hrs
4.	Hands on Design Flood Estimation using Quasi Distributed Model on HEC-HMS	N.N.Rai Kaushal Kumar and Isly Issac	11.07.2019	14:30 hrs to 17:30 hrs
<b>Day-4: Site visit of DRIP DAM</b>				