



INDIAN WATER WORKS ASSOCIATION, MUMBAI CENTRE



Happy Engineers' Day 2021

Engineer's Day Celebration on 26-09-21

KOYNA LAKE TAPPING at 4.30pm



We cordially invite all for a webinar to commemorate the birth anniversary (15th September) of the greatest Indian Engineer Bharat Ratna Shri Mokshagundam Visvesvaraya as Engineer's Day

Koyna Lake Tapping

The Koyna Hydro Electric Project is one of the largest Hydro Power project of India. It comprised of 103 m high rubble concrete dam with impounding capacity of 105 TMC along with 4 stages of power generation and a Koyna Dam Foot Power House with total installed capacity of 1960 MW. Kolkewadi Dam was also constructed to store tail race water of Koyna stage I, II & IV and further to feed water to stage III.

Koyna HEP stage I & II with total capacity of 600 MW along with Koyna Dam were completed & commissioned in 1967. Later, Kolkewadi Dam along with Koyna HEP stage III with installed capacity of 320 MW were constructed to use the tail race water of KHEP stage I & II and commissioned in 1975.

Later by 1980, the electricity demand of Maharashtra increased tremendously and need of peaking power arose. Hence KHEP stage IV with installed capacity of 1000 MW for the water of Koyna Dam was constructed and commissioned in 2000.

Since the intake of KHEP. Stage IV was required to be constructed in the existing Koyna reservoir without depleting it, a nonconventional intake system was created by piercing the lake from the bottom by blasting final rock plug using Norwegian technology called as "Lake tapping". First Lake tapping in 1999 was done to feed water to KHEP stage IV Power House. Second lake tapping in 2012 was done for the Extended Head Race Tunnel of KHEP stage IV at deeper location so that 15 TMC extra water can be made available for established with hampering the KHEP stage IV Power House.

Koyna Project is referred as "The life Line of Maharashtra" ... while lake tapping is an Engineering Marvell.

Participants are requested to join this free Zoom Webinar. Please visit -

<https://us02web.zoom.us/j/89519209186?pwd=YzUrTTE2dzgrVFY1L2FPNnN3bTZiQT09>

Meeting ID : **895 1920 9186** | Passcode : **910558**



GUEST SPEAKER

Er. RAJNISH RAMKISHOR SHUKLA

Chief Engineer & Joint Secretary,
Water Resources Department,
Govt. of Maharashtra,
Mantralaya, Mumbai.



Er. Pramod Dalvi
Hon. Secretary, Mumbai Centre



Er. Maniessa Palande
Chairperson, Mumbai Centre