



KERALA STATE ELECTRICITY BOARD Ltd

(Incorporated under the Companies Act, 1956)

Registered Office: Vidyuthi Bhavanam, Pattom,

Thiruvananthapuram – 695 004

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ABSTRACT

Execution of Civil and Hydro Mechanical works of Hydro Electric Projects - Modality in the measurement of Tunnel lining - Modification in KSEB Data Book - Sanction accorded - Orders issued.

CORPORATE OFFICE (SBU-G/C)

BO (FTD)No.389/2022(DGC/AEEII/General/22/2022)

Thiruvananthapuram, Dated: 08.05.2022

Read: 1.Letter No.CE(C-I&CC)/TA/GENERAL-PRICE /2021-22 dated 21.02.2022 of the Chief Engineer (Civil - Investigation & Construction Central).
2.B.O. (DB) No. 1772/2014 (DGC/AEEII/Data & SoR/2024) dated 28.06. 2014.
3.Letter No.CE-CSS-TVM-AEE4/2022/356 (1) dated 11.04.2022 of the Chief Engineer (Civil - Construction) South.
4.Note No.DGC/AEEII/General/22/2022 dated 18.04.2022 of the Director (Generation-Civil) to the Full Time Directors (Agenda item No.69/4/22).

ORDER

The tunnel lining items of Hydro Electric Projects are presently being worked out based on 'KSEB data book for Civil Works'. In the sanctioned data book of KSEBL, it is mentioned that 50% of lining shall be invert and the balance 50% as overt which is against the general practice being followed in tunnel lining works. Hence it is necessary to modify modalities for demarcating invert and overt portion of tunnel lining KSEB Data Book for Civil works to match with actual execution at site. The Chief Engineer (Civil-I & CC) & the Chief Engineer (Civil - Construction) South has requested necessary amendments in this regard.

The matter was placed before the Full Time Directors as per the note read as 4th above.

Having considered the matter in detail, the Full Time Directors in the meeting held on 21.04.2022:

Resolved to amend the remark of invert overt classification for circular tunnels as 50% for invert & 50% for overt mentioned in the sanctioned KSEBL data book as follows and as shown in Annexure:

- for circular tunnels requiring concrete lining, the bottom 90⁰ be considered as invert and the balance 270⁰ as Overt (sides & arches)
- for flat bottom tunnels such as D- shaped tunnels, modified horse-shoe tunnels etc., the bottom flat or near to flat portion be considered as invert and the portion above this (sides & arches) be considered as overt.

Further resolved to place the matter before the Director Board of KSEBL for ratification.

Orders are issued accordingly.

**By Order of the
Full Time Directors**

**LEKHA G
Company Secretary**

To:

- 1.The Chief Engineer (Civil Construction-North)
2. The Chief Engineer (Civil- Investigation & Construction Central)
3. The Chief Engineer (Civil - DS & DRIP)
4. The Chief Engineer (Civil Construction- South)
- 5.The PM, PES with full powers of Chief Engineer

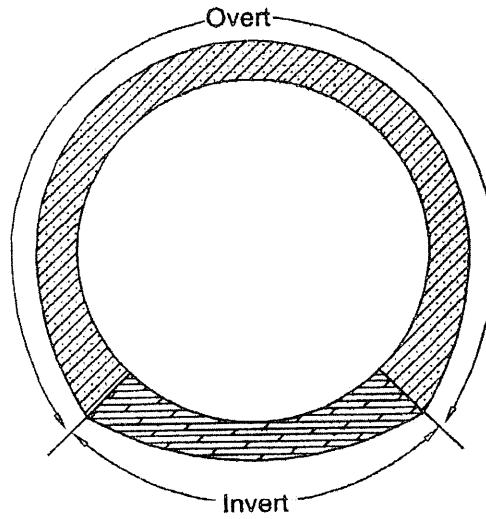
- Copy to:
1. The Chief Engineer (IT ,CR&CAPS)/ The Financial Adviser / The Chief Internal Auditor/Company Secretary
 2. The RCAO/RAO
 3. The TA to(CMD//Director (G-C)/ Director (G-E)/ Director (T& SO)/Director (D&IT)/ Director (REES , Soura, Sports &W)/Director (P&S,SCM)
 4. PA to Director (F)
 5. Stock file/File

Forwarded / By Order

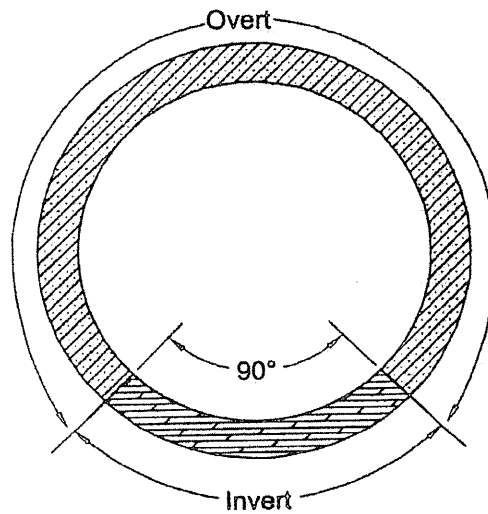
Assistant Executive Engineer

Annexure to the B. O (FTD) No.38/2022 (DGC/AEEII/General/22/2022)
dated 04.06.2022

Indicative sketch showing proposed demarcation of Invert and Overt



Modified Horse shoe shaped Tunnel



Circular shaped Tunnel