

**GOVERNMENT OF ANDHRA PRADESH  
IRRIGATION & CAD (PW.REFORMS) DEPARTMENT**

**Memo.No.31433/Reforms/A1/2007.**

**Dated 28 -05-2013.**

**Sub:-**I&CAD Department – Canal Lining Works-Comprehensive Modalities and General Guide lines – Issued.

**Ref:-** Minutes of the Meeting held on 20-03-2013 in the Chambers of Principal Secretary (P), I&CAD Department, Secretariat.

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A meeting was conducted on 20-02-2013 to finalize the comprehensive Modalities/general guidelines for the verification of quality Control aspect of canal lining works. The ENC (AW), I&CAD Department has submitted the minutes of the meeting along with recommendations made by the members for issuing comprehensive guide lines for the above issue.

2. Government after careful examination of the proposal accept the recommendations made in the meeting and issue the following guide lines for verifications of Quality Control aspects of canal lining works.

- For assessing the compressive strength in canal lining where the thickness of lining is equal to or more than 100 mm, cores shall be extracted and tested in terms of IS 516-1959 reaffirmed in 1999 & IS 1199-1959 reaffirmed in 1999.
- For assessing the compressive strength in canal lining where the thickness of lining is less than 100 mm, NDT (Non destructive tests) shall be carried out for estimation of the strength of the concrete in terms of IS 456-2000.
- The cores should be inspected for Segregation, Honey combing and Thickness of lining.
- The cores should be tested for Density, Compressive strength and Water absorption.
- Observation on nature and direction of presence of cracks in the lining.
- Chemical analysis of cement used in the work can be resorted, if required.
- Observation on arrangement and treatment of construction joints and expansion joints.
- Assessment of adequacy of curing by visual observation.
- The Collection and Testing of cores shall be made in presence of the Department Quality Control staff only.
- Where there is a difference of opinion regarding test results, the cores shall be tested in two different ISO certified laboratories and conclusions have to be drawn based on those test results.

**SHAILENDRA KUMAR JOSHI,  
PRINCIPAL SECRETARY TO GOVERNMENT.**

To

All Engineer-in-Chief(Irrigation Wing), Jalasoudha Buildings,  
Errum Manzil, Hyderabad. *(ENC(AW))*

All chief Engineers in Irrigation Department.

All Sections in Irrigation & CAD(PW & IW) Department.

SF/SC.

**//FORWARDED :: BY ORDER//**

*I. Satyanarayana*  
**SECTION OFFICER.**

**Office of Engineer-in-Chief (IW)  
I & CAD Department, Errummanzil, Hyd.**

**Endt No:ENC(IW)/SE (P&M)/EE-I/DEE-8/19200/12**

**Dt:06-06-2013.**

Sub:- I & CAD Department -Canal Lining Works-Comprehensive Modalities  
and general Guide lines-Issued-Reg

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Copy of the Govt. Memo about "guide lines for verification of Quality  
Control aspects of canal lining works" is here with communicated to all the  
Engineers-in-Chief/Chief Engineers of I & CAD Department for favour of  
information and necessary action. *g plaining to the web site.*

L .NarayanReddy  
Engineer-in-Chief (IW)

*B. S. Reddy*  
7.6.13  
for Engineer-in-Chief (IW)

*9/6/13*