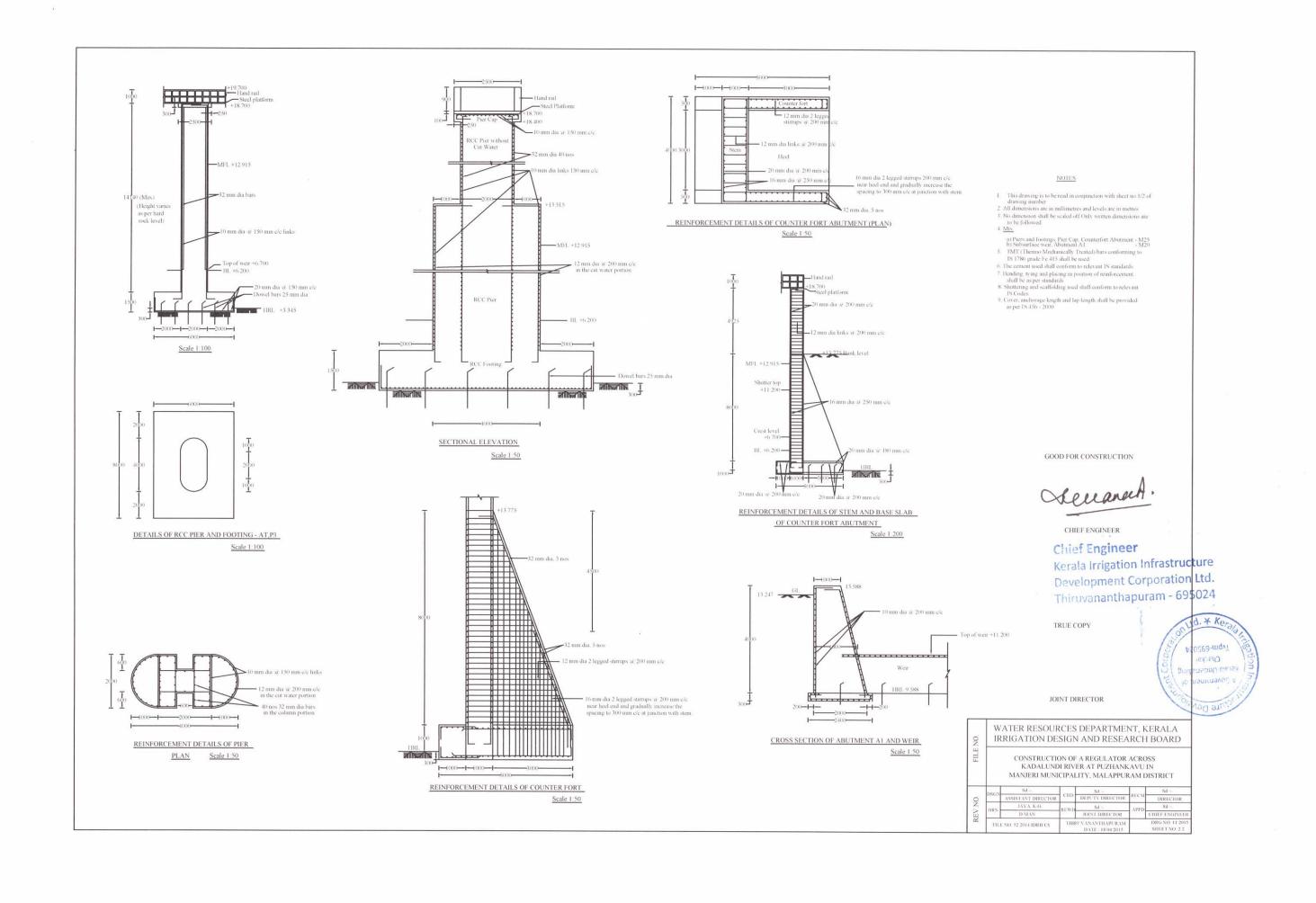
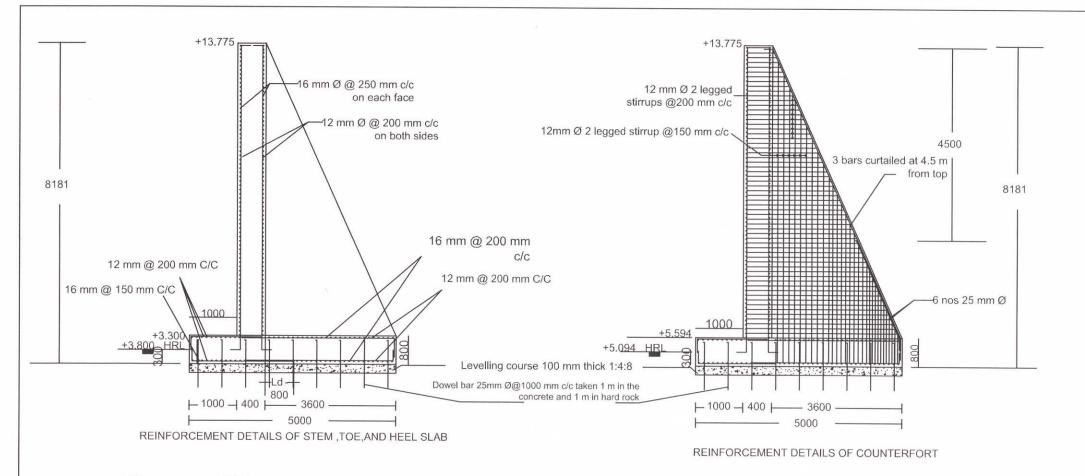
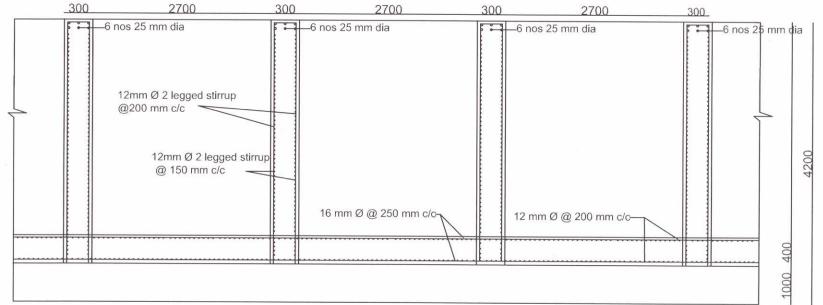


Kerala Irrigation Infrastructure Development Corporation Ltd. Thiruvananthapuram - 695024







NOTES

- 1. All dimensions are in millimeters and levels in meters.
- No dimension shall be scaled off, only written dimension to be followed.
- All specifications shall be in accordance with the latest edition of IS codes.
- 4. Following parameters have been assumed for the design of retaining wall:
- (a) Angle of internal friction
 - 30 ° - 2.00t/m³
- (b) Dry density of backfill
- (c) Saturated density of backfill - 2.10 t/m³
- (d) Surcharge height

- 0.60m
- 5. Mix used: M25
- Proper drainage facilities (weep holes) along with filter materials shall be provided to prevent any accumulation of water in the backfill.
- 7. A levelling course of 100 mm thickness of grade 1:4:8 shall be provided below the retaining wall
- 8. High yield strength deformed bars confirming to IS 1786-2009 grade Fe 415 shall be used for reinforcement. Cover shall be as per IS standards.
- Lap, anchorage, bending, typing and placing in position of reinforcement shall be done as per relevant IS codes.
- 10. Construction joints as well as expansion joints shall be provided suitably.
- 11. Materials and quality specifications should be in conform with IS standards.
- 12. Shuttering and scaffolding used shall conform to relevant IS standards.
- 13. Continuous moist curing shall be done for finishing concrete for a minimum period of 15
- 14. Alteration if any shall be made with the concurrence of this office.
- 15. The retaining wall shall be founded in hard rock with an embedment of 30 cm into hard rock.
- 16. The structure shall be anchored in hard rock with 25 mm dia bars taken 1 m into hard rock and concrete.

PLAN

GOOD FOR CONSTRUCTION

CHIEF ENGINEER

Chief Engineer

Kerala Irrigation Infrastructure Development Corporation Ltd. Thiruvananthapuram - 695024

IRRIGATION DEPARTMENT, KERALA IRRIGATION DESIGN AND RESEARCH BOARD

CONSTRUCTION OF COUNTER FORT RETAINING WALL AT RIGHT BANK OF REGULATOR ACROSS KADALUNDI RIVER -PUZHANKAVU IN MANJERI MUNICIPALITY

DRWG NO: 4/2019

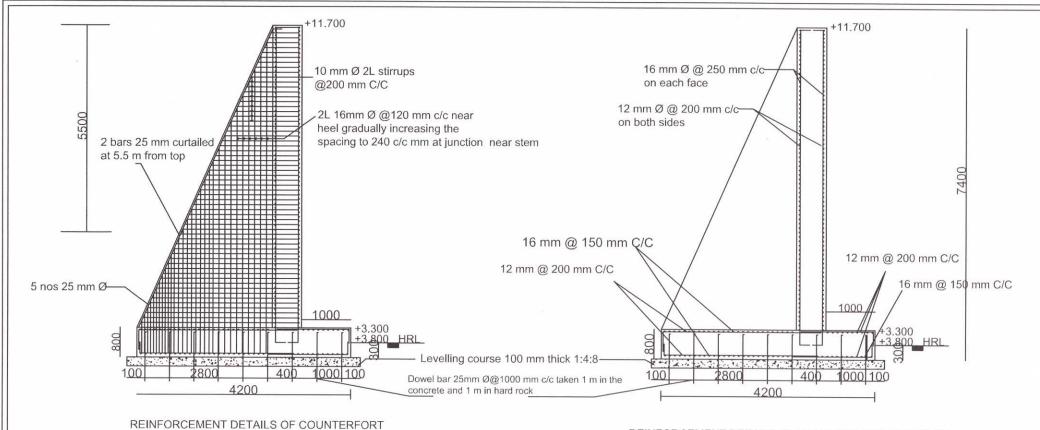
APPROVED BY: CHIEF ENGINEER, IDRB

SHEET NO; 1/1

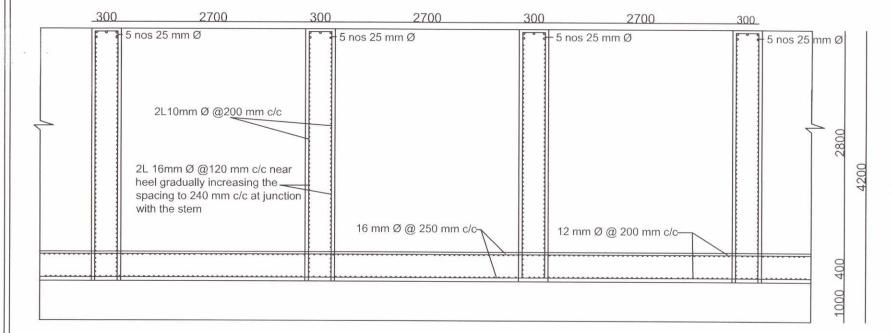
DATE: 14/01/2019

FILE NO: 52/2014/IDRB/CS

THIRUVANANTHAPURAM



REINFORCEMENT DETAILS OF STEM ,TOE,AND HEEL SLAB



NOTES

- All dimensions are in millimeters and levels in meters.
- 2. No dimension shall be scaled off ,only written dimension to be followed.
- 3. Following parameters have been assumed for the design of retaining wall:

(a) Angle of internal friction

- 30 degrees

(b) Dry density of backfill

- 2.00 t/m3

(c) Saturated density of backfill

- 2.00 t/m3

(d) Surcharge height

- 0.60 m

- 4. Mix used: M25
- 5. The retaining wall shall be founded in hard rock with an embedment of 30 cm into haed rock.
- 6. The counter fort retaining wall shall be anchored in hard rock with 25 mm dia bars taken 1 m into hard rock and concrete.

THIS DRAWING CANCELS ADD DWG 2 ISSUED FROM THIS OFFICE

PLAN

CHIEF ENGINEER

Chief Engineer

Kerala Irrigation Infrastructure

Development Corporation Ltd.

Thiruvananthapuram - 695024

CONSTRUCTION OF REGULATOR ACROSS KADALUNDI RIVER PUZHAMKAVU MANJERI MUNICIPALITY

DRWG NO



MIIDC/277/KIIFB-RCB/PUZHAMKAVU/2018

DESIGN & DRAWN BY:

CHECKED BY:

bhal DATE: 11/0

DATE: 11/02/2021 A

ADD DWG 2

KERALA IRRIGATION INFRASTRUCTURE DEVELOPMENT CORPORATION

DETAILS OF LEFT SIDE COUNTERFORT
RETAINING WALL

R1